

1735.

173465
755.C
Apollo Anglicanus;

THE
ENGLISH APOLLO.
Assisting

All Persons in the Right Understanding of this YE A R's Revolutions, as also of Things past, present, and to come.

A Twofold Kalendar, viz. Julian or English and Gregorian or Foreign Computations, more plain and full than any other; with the Rising and Setting of the Sun, the Nightly Rising and Setting of the Moon, and also her Southing, exactly calculated for every Day.

Of General Use for most Men.

Being the Third after Bissextile, or Leap-Year.

To which is added the Moon's Application to the fixed Stars: With the Calculations of the Eclipses: Also Rules and Tables for the Measuring of Timber: With many other things both pleasant, useful, and necessary.

Calculated according to Art, and fitted to the Meridian of Leicester, whose Latitude is 52 Degrees, 41 Minutes, exactly fitting all the middle Counties of England, and, without sensible Error, the whole Kingdom.

By RICHARD SAUNDER.

Student in the Physical and Mathematical Sciences.

The Nine and Fortieth Impression of the same Author.

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for the Company of STATIONERS, 1735.

Phemerides. h.

The Julian, or Old Account used in England. } 1735. { The Gregorian, or New Style used beyond Sea

	7	The Golden Number,	
	8	The Dominical Letter.	
	17	The Epact.	
February	16	Shrove-Sunday.	February
May	15	Ascension-Day.	May
June	25	Whit-Sunday.	May
December	30	Advent-Sunday.	November

A TABLE of the TERMS, and their Returns

Hilary TERM begins Jan. 23. and ends Feb. 1. and hath four Returns, viz.

On the 8th day after St. Hilary, Jan. 2
 In 15 days from the day of St. Hilary, 2
 On the morrow of the Purif. of the Bl. V. M. Feb.
 On the Octave of the Purif. of the Bl. V. M. 1

Easter TERM begins April 23, and ends May 1. and hath a Five Returns, viz.

In 15 days from the Feast-day of Easter, Apr. 2
 In 3 weeks from the Feast-day of Easter, 2
 In one month from the Feast-day of Easter, May
 In 5 weeks from the Feast-day of Easter, 1
 On the morrow of the Ascension of our Lord, 1

Trinity Term begins June 6, and ends June 2. and hath Four Returns, viz.

On the morrow of the Holy Trinity, June
 On the Octave of the Holy Trinity,
 In 15 days from the day of the Holy Trinity,
 In 3 weeks from the day of the Holy Trinity,

Michaelmas Term begins Oct. 23, & ends Nov. 1. and hath Six Returns, viz.

In 3 weeks from the day of St. Michael, Oct.
 In one month from the day of St. Michael, 1
 On the morrow of All Souls, Nov.
 On the morrow of St. Martin, Nov.
 On the Octave of St. Martin,
 In 15 days from the day of St. Martin,

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Jan. 2

Feb.

s May

Apr. 2

May

June 2

June

s Nov

Oct.

Nov.

Nov.

TABLE OF THE KINGS AND QUEENS OF England, since the Conquest.

	Born	Began to reign.	Reign.	Since their Reign	Buried at
	Ann.		Y. M.	ended.	
William 1	1029	1060, Octob. 14	20 11	656, Septem. 9	Can Nor.
William 2	1056	1087, Sept. 9	12 11	635, August 2	Winchest.
Henry 1	1068	1100, Aug. 2	35 4	600, Decemb. 1	Reading
Stephen	1105	1135, Dec. 1	18 11	581, Octob. 25	Feverham

The Saxon Line restor'd.

Henry 2	1132	1154, Octo. 25	35 9	546, July 6	Fountever
Richard 1	1155	1189, July 6	9 6	536, April 6	Fountever
John	1165	1199, April 6	17 6	519, Octob. 19	Worcester
Henry 3	1207	1216, Octo. 19	56 14	63, Nov. 16	Westmin.
Edward 1	1239	1272, Nov. 16	34 8	428, July 7	Westmin.
Edward 2	1283	1307, July 7	19 7	409, Jan. 25	Gloucester
Edward 3	1312	1326, Jan. 25	51 5	358, June 21	Westmin.
Richard 2	1366	1377, Jun. 21	22 3	336, Sept. 29	Westmin.

The Line of Lancaster.

Henry 4	1367	1399, Sept. 29	13 6	324, March 20	Canterb.
Henry 5	1386	1412, Mar. 20	9 5	314, August 31	Westmin.
Henry 6	1421	1422, Aug. 31	38 6	275, March 4	Windfor

The Line of York.

Edward 4	1442	1461, Mar. 4	25 1	253, April 9	Winchest.
Edward 5	1471	1483, April 9	0 1	251, June 18	Not know.
Richard 3	1448	1483, June 18	2 2	250, August 22	Leicester

The Families United.

Henry 7	1455	1485, Aug. 22	23 6	226, April 22	Westmin.
Henry 8	1491	1509, April 22	37 10	187, Jan. 28	Windfor
Edward 6	1537	1547, Jan. 28	6 5	182, July 6	Westmin.
Mary 1	1518	1553, June 6	5 4	177, Nov. 17	Westmin.
Eliz. 1	1533	1558, Nov. 17	44 4	133, March 24	Westmin.

The Two Kingdoms in the same Line.

James 1	1566	1602, Mar. 24	22 0	110, March 27	Westmin.
Charles 1	1600	1625, Mar. 27	23 10	86, Januar. 30	Windfor
Charles 2	1630	1648, Jan. 30	36 0	50, Februar. 6	Westmin.
James 2	1633	1684, Feb. 6	4 0	46, Februa. 13	S. Germai.
William & Mary 2	1650	1689, Feb. 13	13 5	33, March 8	Westmin.
James 6	1662	1689, Feb. 13	13 5	41, Decem. 28	Westmin.
Anne 1	1665	1702, Mar. 8	12 5	21, August 1	Westmin.
George 1	1660	1714, Aug. 1	12 10	8, June 11	Hanover.
George 2	1683	1727, June 1	11	Whom GOD grant long to Reign.	

You here may see a Race of Monarchs Great,
And in what Time each took the Royal Seat :
GOD set them up, the Subjects did them Crown,
The greatest Rebel dares not pull 'em down :
If some were bad, who durst them Tyrants call ?
Since good, or bad, they're God's Vicegerents all.

A TABLE shewing the Time of the Moon's coming to the South, in Hours and Minutes, every Day for the first Six Months of the Year 1735.

Days	January		February		March		April		May		June
	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	h.
1		2M.47		3M.42		2M.31		3M.47		4M.10	5M.
2	3	33	4	33	3	21	4	38	4	56	5
3	4	22	5	22	4	10	5	23	5	41	6
4	5	12	6	2	4	59	6	10	6	26	7
5	6	0	7	0	5	48	6	55	7	9	8
6	6	45	7	49	6	36	7	41	7	54	8
7	7	33	8	36	7	24	8	26	8	39	9
8	8	21	9	23	8	10	9	12	9	25	10
9	9	9	10	9	8	54	9	57	10	16	11
10	9	56	10	55	9	41	10	45	11	9	12
11	10	43	11	39	10	27	11	34	12	7	1A.
12	11	29	12	25	11	12	12	27	1A.	6	2
13	12	14	1A.	9	11	58	1A.	22	2	5	3
14		0A.59	1	55	12	44	2	19	3	5	4
15	1	44	2	43	1A.	34	3	17	4	2	5
16	2	26	3	31	2	27	4	16	4	59	6
17	3	15	4	23	3	22	5	13	5	50	7
18	3	58	5	17	4	17	6	7	6	41	7
19	4	45	6	14	5	14	7	2	7	29	8
20	5	35	7	14	6	12	7	53	8	17	9
21	6	27	8	13	7	9	8	44	9	8	10
22	7	25	9	10	8	4	9	34	9	56	11
23	8	23	10	9	9	0	10	24	10	45	11
24	9	24	11	4	9	48	11	12	11	35	12
25	10	24	11	57	10	45	12	3	12	25	CM
26	11	23	12	49	11	37	0M	3	0M	25	1
27	12	21	0M	49	12	27	0	54	1	13	2
28		0M.21	1	41	0M	27	1	44	2	3	2
29	1	13			1	18	2	34	2	47	3
30	2	5			2	7	3	24	3	33	4
31	2	54			2	56			4	18	

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TABLE shewing the Time of the Moon's coming
to the South, in Hours and Minutes, every Day for
the last Six Months of the Year 1735.

July	August	Septem.	Octob.	Novemb.	Decem.
h. m.	h. m.	h. m.	h. m.	h. m.	h. m.
5M 4	6M 9	7M 58	8M 48	10M 13	10M 30
5 48	7 6	8 57	9 42	11 4	11 21
6 35	8 0	9 56	10 37	11 37	12 12
7 26	9 5	10 54	11 30	12 49	1A 2
8 21	10 6	11 48	12 22	1A 40	1 50
9 20	11 6	12 42	1A 14	2 32	2 36
10 21	12 5	1A 36	2 8	3 21	3 22
11 33	1A 1	2 30	3 1	4 9	4 4
12 24	1 55	3 22	3 53	4 54	4 47
1A 24	2 50	4 13	4 41	5 39	5 29
2 19	3 43	5 4	5 30	6 23	6 11
3 13	4 31	5 54	6 16	7 5	6 56
4 4	5 21	6 41	7 2	7 47	7 43
4 53	6 7	7 30	7 46	8 30	8 30
5 42	7 1	8 16	8 29	9 17	9 23
6 31	7 51	9 2	9 12	10 3	10 17
8 20	8 38	9 45	9 56	10 56	11 15
8 9	9 24	10 28	10 40	11 50	12 14
8 59	10 11	11 13	11 28	12 47	0M 4
9 47	10 55	11 58	12 19	0M 47	1 15
10 34	11 39	12 42	0M 19	1 47	2 11
11 21	12 22	0M 42	1 11	2 43	3 10
12 6	0M 22	1 31	2 7	3 40	4 1
0M 6	1 5	2 23	3 3	4 36	4 53
0 51	1 52	3 15	4 0	5 29	5 42
1 34	2 37	4 9	4 57	6 20	6 32
2 18	3 25	5 4	5 51	7 9	7 22
3 1	4 16	6 1	6 45	7 59	8 12
3 46	5 8	6 57	7 38	8 51	9 1
4 31	6 3	7 54	8 29	9 40	9 52
5 20	7 0		9 21		10 41

To find the Time of High Water in most Parts of England, &c.

First seek the Moon's Southing in the foregoing Table for your Day, then you may conclude it High-Water at the Isle of Wight, Southampton, Quilborough and Portsmouth for there the South and North Moons make a High-Water. But when you desire the Time of Full Sea in any of the following Coasts in the ensuing Table, find the Name of the Place, and see how many hours and minutes be annexed thereto in the Column under H. M. which being added to the time of the Moon's coming to the South, gives the time of High-Water at the Place required.

A Tide-Table with the Names of the Havens. H.	
Rochester, Malden, Aberdeen, West-end of the Nore	0
Gravesend, Downs, Thanet, Romney, Ramkins	1
Dundee, St. Andrews, Lisbon, Bell-Isle	2
London, Tynmouth, Hartle-pool, white Bay, Amsterdam	3
Bridlington-Bay, Berwick, Ostend, Flushing, Bourdeaux	3
Frisch, Leith, Dunbar, Narbon, Scarborough, Se-vern, Baltimore, Mounts-bay, Cork, Kingsale	4
Newcastle, Falmouth, Dartm. Humb. Torbay, Guernsey	5
Lyn, Antwerp, Flim. Hull, Weym. S. David's, S. Malo	6
Bristol, Start-point, Lanion, Foulness	6
Millford, Bridgwater, Northcoast, Lands-end, Waverford	7
Portland, Peter-port, Harisflew, Dublin	8
S. Hellens, Man-Isle, Pool, Needles, Orford, N. & S. Forel.	9
Dover, Yarmouth, Harwich, Callice-Road, Bullein	10
Rye, Winchelsea, Calshot	11

Example.

The 15th Day of April this Year, it is required to know the Time of High-Water at London: By the Table the Moon's coming to the South, against April the 15 I find the Moon South at 3 ho. 17 min. afternoon, in the Tide-Table above, I find against London, 3 ho. 0 min. which being added to 3 ho. 17 min. makes 6 ho. m. in the Afternoon, the Time of High-water at London the said 15th of April; the like of any other.

Note, The Latitude of the Moon and Winds may alter it an hour sooner or later; and the Tide flows considerably more at the New and Full Moons, than at the First and Last Quarters.

Direction

INSTRUCTIONS for the subsequent DIARY, or
ALMANACK.

IN the first Column to the Left hand, on the Left-hand Page, you have the Numerical Figures of the Days of the Month.

In the second Column you have the Week-days, and the Dominical Letter.

In the third Column you have the Saints-days, and the Places of the Planets once a Month; as also the Moon's Application to the Fixed Stars, by which the Eclipses and Constellations may be easily known to an ingenious Eye and Understanding.

In the fourth Column the Moon's Place in the Zodiac, every Day at Noon.

In the fifth Column the Rising and Setting of the Moon, with Respect to her Latitude.

In the sixth Column the Mutual Aspects of the Planets, with the General State of the Weather.

In the first Column on the Right-hand Page you have the *Englisk* Account.

In the second Column you have the *Roman* Account, being now Eleven Days before ours.

In the third Column the *Roman* Week-days.

In the fourth Column the perfect *Roman* Kalendar, and Saints-days.

In the fifth Column you have a Treatise of the Generation of Things in the Moon, and of her being Inhabited.

The sixth, seventh, and eighth Columns, the utmost to the Right-hand, shew you the daily Rising and Setting of the Sun.

On the top of the Left-hand Page is set the New and Full Moons, with the first and last Quarters.

On the top of the Right-hand Page is set the Rising, Southing, and Setting of the Planets.

1735

January hath xxxi Days.

- ☾ Last Quarter the 4th day, at 10 at Night.
 ● New Moon the 13th day, at 2 in the Morning.
 ☽ First Quarter the 20th day, at 10 at Night.
 ● Full Moon the 27th day, at Noon.

1	a	New-year's Day.	virgo	9	9A.	3	Cloudy clo
2	b	☽ pr. Seg. Sin.	virgo	24	10	24	and drif ng
3	c	☽ pr. Vindemiati	libra	7	11	30	Weather a
4	d	☽ pr. Spica. Virg.	libra	20	12	45	the beginni
5	e	☼ Sun. aft. Christ	scor.	3	0M	45	followed w
6	f	Epiphany.	scor.	15	1	54	△ h ♀ lib
7	g	h 8 7 D.	scor.	27	2	57	Frosts, the
8	a	☽ w o.	sagit	9	3	57	♂ ☉ ♀ ple
9	b	☼ in Aquario.	sagit	21	4	49	ty of Snow
10	c	♂ v 13.	capri.	3	5	36	cold ☐ ♀
11	d	♀ w 3.	capri.	15	6	16	Rain; after
12	e	☼ Sun. aft. Epip.	capr.	27	6	52	that a retu
13	f	Hilary	aqua.	9	New	3	of the Fro
14	g	☽ w 19 D.	aqua.	21	6A.	18	and more
15	a	♂ w 29	pisces	3	7	23	vere, but a
16	b	☽ pr. Marchab	pisces	15	8	29	bout the Ne
17	c	☽ pr. Aus. Cau. Ct	pisces	28	9	39	☐ h ♀ Mo
18	d	☽ pr. Algenib	aries	11	10	51	high winds
19	e	☼ Sun. aft. Epip	aries	23	12	2	☐ ☉ h. st
20	f	☽ pr. Manker	taur.	6	0M	2	my Weather
21	g	St. Agnes	taur	20	1	3	be expected; w
22	a	☽ pr. Aldebaran	gem.	4	2	15	Pl. of Wales
23	b	Term begins	gem.	18	3	23	plenty of dow
24	c	☽ pr. Luc. Ped. II	canc.	3	4	30	fall about the
25	d	Conv. St. Paul.	canc.	18	5	29	or 20th days.
26	e	☼ Sun. aft. Epip	leo	3	6	16	Now Frosty ag
27	f	☽ pr. Cor. Leonis	leo	18	7	11	other while so
28	g	☽ pr. Terg. Leon	virgo	3	6A.	34	☐ h ♀. co
29	a	☽ pr. Aust. Al. w	virgo	8	7	53	drifling rain o
30	b	Ch. I. Marc.	libra.	2	9	10	leet; followed
31	c	☽ pr. Spica Virg	libra.	16	10	23	* ♂ ♀. hi
							Winds & turb
							about the End

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January 1735.

Saturn at the beginning is South between 6 and 7 at Night; at the end about 5. Jupiter emergeth from under the Sun Beams, rising before him. Mars sets about 11 at Night, Venus is combust. Mercury at the beginning rises about an hour before the Sun, at the end is very near the Sun, going to combustion.

11	1	Satyrus	<i>Luna est Habitabilis, or</i>	18	63	54
12	2	Hilarius	<i>the Moon is Habitable.</i>	2	5	55
13	3	Felix	T H O' it must be	3	4	56
14	4	Mauritius	confess'd that	4	2	58
15	5	Su. af. E	Astronomy, in the	5	13	59
16	6	Anthony	course of many Ages,	6	7	4
17	7	Prisca	hath made a great pro-	7	58	2
18	8	Pontian	gress in discovering the	8	56	4
19	9	Fab. & Seb.	constitutions of the Cœlestial	9	55	5
20	10	Agnes	Bodies, yet it is not arrived	10	53	7
21	11	Vincent	at the height, but that very	11	52	8
22	12	Su. af. Ep	many things, and those wor-	12	50	10
23	13	Timothy	thy our consideration, remain	13	48	12
24	14	Cor. S. Paul	undecided, and many other	14	46	14
25	15	Polycarp	undiscovered. Thus I af-	15	7	44
26	16	Ch. y. soft.	firm, that several Experiments	16	43	17
27	17	Chr. Mag.	of Moderns in many Things,	17	41	19
28	18	Vale ius	stopped the Mouth of vene-	18	39	21
29	19	Su. af. Ep	erable Antiquity, and provid	19	38	22
30	20	Suriacus	many of their greatest and	20	36	24
31	21	Bridget	weightiest Opinions to be	21	34	26
1	22	Pu. V. M.	vain and false; and by deep	22	33	27
2	23	Blase.	er search into the hidden re-	23	31	29
3	24	Veronica	cesses of Nature, our Modern	24	29	31
4	25	Agatha	Writers have had the Pre-	25	27	33
5	26	Septuages.	cedency given them. Thus	26	25	35
6	27	Zacharius	the Doctrine of the Earth	27	23	37
7	28	Corinthi.	Motion, (by many of the	28	21	39
8	29	Apo. V. M.	Antients, of approved Wis-	29	19	41
9	30	Schol. st.	dom and Learning) was held	30	17	43
10	31	Euphrosin.	a Paradox, no less absurd	31	16	4
11			than this our Opinion, the			
			first was counted impossible			
			by many, but the latter was			
			absolutely denied by the			
			unanimous consent of all; but			
			latter Authors (to the great			
			Felicity)			

1735.

February hath xxviii Days.

- ☾ Last Quarter the 3d day, at 3 aftern.
 ● New Moon the 11th day, at 8 at night.
 ☽ First Quarter the 19th day, at 7 in the morn.
 ☾ Full Moon the 27th day, at 11 at night.

Mont. Da.	Week Da.	Festival & Saints days, with the C's applicat. to the noted fixed stars	The D's place in the zodiack at N.	The C's rising fro. the full to the change, & setting fr. the cha. to the fu.	The mutual Aspects of the Planets, with the Various Conjunction of Air, and change of Weather
1	D	pr. Augst. V. ♀	libra 28	11 A. 33	Moon's rising. Raw and cold
2	a	Septuagesima	scorp. 12	12 43	[Pur. VM]
3	T	pr. Front. Scor.	scorp. 24	0 M 43	dr. singrainor
4	B	♂ 9.	sagit. 6	1 45	snow; also
5	a	♂ 9.	sagit. 18	2 43	misty and fog
6	B	♂ 1.	capr. 0	3 30	gy * ♀ 9.
7	c	♂ 7.	capr. 12	4 1	days & 6 ♂ 9
8	D	Sol in Pisce	capr. 24	4 15	will prob.
9	E	Sexagesima	aquar. 6	5 23	* ♀ 9 ably
10	T	♂ 4.	aquar. 18	5 51	* ♂ 9. con-
11	B	♂ 28.	pisces 0	New ☾	tinue a moist
12	a	Term ends	pisces 12	6 A. 20	Air till after
13	B	pr. Caud C Bo.	pisces 25	7 29	* ♀ 9 the
14	c	Valentine.	aries 7	8 40	* ♀ 9. New
15	D	pr. pri. in Nod	aries 20	9 54	Moon, then
16	E	Quinquagesima.	taur. 3	11 3	some windy
17	T	pr. Caud. Ariet.	taur. 17	1 13	* ☉ & stor.
18	B	Shrove-Tuesday	gem. 0	12 13	△ ♀ 9 days
19	a	Ash-Wednesday	gem. 14	0 M 13	af. that some
20	D	pr. Luc. ped II	gem. 2	1 20	brisk frosts bud
21	c	pr. Cast. Pollux	canc. 12	2 24	* ☉ h offhort
22	B	pr. Affellos	canc. 27	3 16	♀ h ♂ contin
23	E	Quadragesima.	leo 13	4 4	♂ ♀ 9 & isfol
24	T	St. Marchias.	leo 26	5 15	lowed with cold
25	B	pr. Terg Leon.	virg. 11	Full ☉	drifling Rain on
26	a	Ember-Week.	virg. 26	6 A. 50	Snow, and about
27	D	pr. Spica Virg.	libra 10	8 5	the Full Moon
28	c	pr. Aust. in V	libra 24	9 21	(One high Winds and Storm there with but at the End Pleasant Days

under.

February 1735.

Saturn at the beg. sets about Mid-Night, at the end about 11. *Jupiter* at the beg. rises betw. 4 & 5 in the Morn. at the end betw. 3 and 4. *Mars* sets about 11 night. *Venus* emergeth sering afr. the Sun. *Mercury* at the beg is combust, at the end he emergeth, sering afr. the Sun.

For. Account.	Rom. Calendar.	Rom. St. days.	Feriz Sta. & Concep.	Generation of things in the Moon, &c.	M.D.	☉	☾
1	1	a	Severinus	Felicity, and perpetu-	17	14	46
2	2	b	Sexages.	al Glory of their Age)	2	12	48
3	3	c	Valentine	have not so much by	3	10	50
4	4	d	Faustinus	Authority, as by Ac	4	8	52
5	5	e	Polycarp	curate Diligence, and	5	6	54
6	6	f	Constance	indefatigable Study to	6	4	56
7	7	g	Concordia	find out the Truth,	7	2	58
8	8	a	Romanus	prov'd the former, viz.	8	0	0
9	9	b	Quinquag.	the Ear. h's Motion to	9	58	2
10	10	c	Isaias	be undoubtedly true;	10	56	4
11	11	d	Shrove Ta	and the latter, viz.	11	54	6
12	12	e	Ad. Wed.	the habitability of the	12	52	8
13	13	f	St. Matth.	Moon, no less proba-	13	50	10
14	14	g	Victorius	ble, as the Sequel of	14	48	12
15	15	a	Simeon	ny Discourse will (or	15	46	14
16	16	b	Quadrages	at least will endeavour	16	44	16
17	17	c	Romanus	to) demonstrate; and	17	42	18
18	18	d	David B.	that by plain, expert,	18	40	20
19	19	e	Chas. B.	and undeniable con-	19	38	22
20	20	f	Maurice.	clusions; and First, 1	20	36	24
21	21	g	Acacia us	there is a Resemblance	21	34	26
22	22	a	Phocas	and Conformity be-	22	32	28
23	23	b	Reminisc	tween the Moon and	23	30	30
24	24	c	Fredericus	the Earth, then it is	24	28	32
25	25	d	Cyprianus	highly probable, that	25	26	34
26	26	e	Prudentia	the Moon and the	26	24	36
27	27	f	Agapite	Earth should be alike	27	22	38
28	28	g	40 Mart.	Habitable, and there	28	20	40
				is			

March hath xxxi Days.

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- ☾ Last Quarter the 5th day, at 10 in the morn.
- ☾ New Moon the 13th day at 11 in the morn.
- ☾ First Quarter the 20th day, at 3 in the aftern.
- ☾ Full Moon the 27th day, at 11 in the morn.

1	h	Q. Car. bor. 168	scorp. 7	10A. 31	Moon's rising.	☐ 4 ♀. Fro
2	e	2 Sun. in Lent.	scorp. 19	11 36		ry at the beg
3	f	☾ pr. Cord. Scor.	sagit. 2	12 23		followed with
4	g	☾ pr. Dext. G. O.	sagit. 14	0M 23		high winds &
5	a	☾ pr. Sin. Man ♀	sagit. 26	1 30		storm. ☐ 4 ♀
6	b	☾ pr. Uic. in C. ♀	capr. 8	2 18		Weather then
7	c	☾ pr. Aust. Co. ♀	capr. 20	2 56		some pleasant
8	d	h 8 11.	aqua. 2	3 31		days, also some
9	e	3 Sun. in Lent.	aqua. 14	3 58		gentle Frosts
10	f	Sol in Ariete	aqua. 26	4 25		bursoon turns
11	g	☾ ♀ 10.	pisces 8	4 49		to windy and
12	a	♂ 8 24.	pisces 21	5 13		boisterous
13	b	♀ 19.	aries 4	New		weat. ♂ ♀ ♀
14	c	☾ ♀ 17. St. ad. B.	aries 17	7A 46		and may continue
15	d	♂ 26.	tau. 0	9 0		to till after the
16	e	Mid-Lent. Sun.	taur. 13	10 13	Moon's set.	New Moon;
17	f	St. Patrick.	taur. 27	11 24		Now some cloudy
18	g	☾ pr. Aust. Cor ♂	gem. 11	12 25		and close days,
19	a	☾ pr. Luc. Ped. ♀	gem. 25	0M 25		and probably a
20	b	☾ pr. Vent. Au. ♀	canc. 9	1 39		moist Air there-
21	c	Benedictus.	canc. 23	2 8		with, then a
22	d	☾ pr. Affellos.	leo 7	2 48		☐ 4; more
23	e	4 Sun. in Lent.	leo 22	3 20		♂ 4 ♀. pleas
24	f	☾ pr. Serg Leon.	virgo 6	3 53		air, with now
25	g	Annu. B. V. M.	vigo 20	4 18	Moon's rising.	☐ 4 ♀. and
26	a	☾ pr. Vindematr.	libra 4	4 46		then some gentle
27	b	☾ Eclipsed in y.	libra 18	Full		showers, also
28	c	☾ pr. Lanx. Aust.	scorp 2	8A. 17		windy and stormy
29	d	☾ pr. Lanx. Bor.	scorp 15	9 29		at the Full Moon,
30	e	Palm Sunday.	scorp 28	10 32		but some warm,
31	f	☾ pr. Dex Gen. O.	sagit 10	11 27		calm & pleasant
						* ♂ ♀.
						☐ 4 ♀
						days at the end.

under.

March, 1735.

For. Account.	Rom. Calendar.	Rom. Sc. days.	
			<i>Saturn</i> at the beg. sets bet. 10 & 11 at Nig. at the end bet. 9 & 10. <i>Jupiter</i> at the beg. rises bet 3&4 in the morn. at the end bet. 2 & 3. <i>Mars</i> sets abo. 11 at Nig. <i>Venus</i> at the beg. sets about 7 at Nig. at the end abo. 8. <i>Mercury</i> is Combuſt.
12	e	Gregory	is a resemblance be-
13	e	Oculi	tween them; <i>Luna est</i>
14	c	Eutichus	<i>ejuſdem Nature cum</i>
15	d	Longinus	<i>Terra in hoc, quod in ex-</i>
16	e	Hilarius	<i>timâ ſuâ ſuperficie ha-</i>
17	f	Gertrude	<i>bet Montes & Valles,</i>
18	g	Edw. R.	<i>Continentes, & Maria</i>
19	a	Josephus	<i>&c. Kep. Epit. Astron.</i>
20	b	Lactate	lib. 1. p. 100. For the
21	c	Benedictus	Moon is manifeſtly
22	d	Victorius	like to the Earth in
23	e	Paulinus	figure, which undoubt-
24	f	Quirinus	edly is Spherical; as
25	g	Ann. BVM	may be neceſſarily
26	a	Caſtulus	concluded from the
27	b	Judica	Aspect of its Surface,
28	c	Gideo	which is perfectly Orbicular,
29	d	Fortuna.	and the manner of its recei-
30	e	Felix	ving the Light of the Sun
31	f	Balbina	Secondly, She, as the Earth,
April	g	Theodore	in her ſelf, is obſcure and
2	a	Mary Egy.	opacous, by which Opacity
3	b	Palm-Sun.	it is enabled to receive, and
4	c	Ambroſe	reflect the Light of the Sun
5	d	Vincent	which, was it not ſo, it could
6	e	Sixtus Pap	not do. Thirdly, I hold it
7	f	Celeſtinius	matter to be moſt denſe and
8	g	Dionifius	ſolid, as the Earth is, which
9	a	Albinus	I clearly argue from its un-
10	b	Pafcha	evenneſs of its Superficies in
11	c	Leo P.p.	moſt Places; diſcovered by
			the help of Teſſeſcopes; as
			alſo by the bare Eye ther
			are many great Spots to b
			diſcerned directly reſembling
			OUT

April hath xxx Days.

17

- ☾ Last Quarter the 4th day, at 6 in the morning.
- New Moon the 11th day, at mid-night.
- ☾ First Quarter the 18th day, at 10 at night.
- Full Moon the 25th day, at 11 at night.

1	B	☽ pr. Dex. Hu. Op	sagit. 22	12	A. 20	Moon rising.	Some gen
2	a	☽ pr. Ult. in Ca	capr. 4	0	M 20		Frosts 6 h
3	b	☽ pr. Luc. Vuet.	capr. 16	1	2		at the begi
4	f	Good-Friday.	capr. 28	1	38		then some
5	d	☽ pr. Dex. Hu. ☾	aquar. 10	2	8	Moon's setting.	moderate rain
6	e	Easter-Day.	aquar. 22	2	36		or showers,
7	f	☿ 8 15.	pisces 4	2	55		followed with
8	B	♄ 13.	pisces 17	3	23		mild, calm &
9	a	Sol in Tauro	pisces 29	3	45	Moon's rising.	pleasant we
10	b	♂ 13.	aries 12	4	8		and continue
11	c	☉ Eclipsed inv	aries 26	New	8		seasonable ex
12	d	♂ 26.	taur. 9	8	A. 6		cept som. bris
13	e	Low-Sunday	taur. 23	9	16	Moon's setting.	winds, bring
14	f	♂ 9 D.	gem. 7	10	27		ing more plen
15	B	♄ 24.	gem. 21	11	23		ty of rain a-
16	a	☽ pr. Luc. Ped. ♀	canc. 5	12	14		bout the Full
17	b	☽ pr. Pollux	canc. 20	0	M 14	Moon's rising.	Moon; but after
18	c	☽ pr. Afellos	leo 4	0	57		that, a clear and
19	d	☽ pr. Cord. Leon.	leo 18	1	36		pleasant Air, now
20	e	☽ Sun. aft. Easter.	virgo 2	2	3		and then some
21	f	☽ pr. Caud. Leon.	virgo 16	2	30	Moon's setting.	☐ ♄ ♀ cold
22	B	☽ pr. Vindemiati	libra 0	2	55		days, also some
23	a	Term. begins	libra 13	3	20		gentle Frosts, but
24	b	☽ pr. Larc. Aust.	libra 27	3	46		☐ ☉ ♄. of
25	c	St. Mark.	scorp. 10	Full.	11	Moon rising.	short contin ances
26	d	☽ pr. Erent. ♄	scorp. 23	8	A. 22		and abo. the Full
27	e	☽ Sun. aft. Easter.	sagit. 5	9	21		Moon, some win-
28	f	☽ pr. Dex. Ho. Op	sagit. 18	10	13		dy & showery
29	B	☽ pr. Dex. Ma. ♄	capri 11	1	1	Moon rising.	☐ ☉ ♄ Wea.
30	a	☽ pr. Post. in Ca	capri 12	11	40		* ☉ ♄ is ex-
							pected, at the end
							ome warm Wea-
							ther.

Saturn at the beg. sets with *Venus* abo. 9 at Nig. at the end. *Saturn* is Combust & *Venus* sets abo. 10 at Nig. *Jupiter* at the beg. rises bet. 1 & 2 in the morn at the end bet. 11 & 1 in the morn. *Mars* sets abo. 11 at Night. *Mercury* rises a little before the Sun,

Rom. Calendar.	Rom. St. days.						
131	D	Julius	our most sharp & crag-	1	5	13	6 47
132	E	Sothen.	gy Mountains. Fourth	2		11	49
133	F	Tiburtius	ly, Like as the surface	3		9	51
134	G	Perpetua	of our Globe is distin-	4		7	53
135	A	Carisius	guish'd into two dif-	5		5	55
136	B	Quasimod	ferent p ^r s, for clari-	6		3	57
137	C	Valerian	ty & obscurity. name-	7	5	16	59
138	D	Timoth.	ly, into Terrestrial &	8	4	59	7 1
139	E	Ananias	Aquatick; so in the	9		57	3
140	F	Quintrin	Lunar Surface we dis-	10		55	5
141	G	Emanuel	cern a great distinction	11		53	7
142	A	St. George	of parts, some, more	12		51	9
143	B	Miserecor	resplendent. and some	13		49	11
144	C	St. Mark.	less; whose Aspects	14		47	13
145	D	Clerus	make me believe, that	15		45	15
146	E	Anastatius	that of the Earth would	16	4	43	7 17
147	F	Vitalis	seem very like it, beheld by	17		41	19
148	G	Pet. D M.	any one from the Moon, or	18		40	20
149	A	Eutropius	else where, at the like dist-	19		38	22
150	B	SPh. & Ja.	ances, illuminated by the	20		36	24
151	C	Athanasius	Sun; and the Surface of the	21		35	25
152	D	Invent. +	Sea would app. at more ob-	22		33	27
153	E	Christoph.	scure, that of the Earth more	23	4	31	7 29
154	F	Gochard	bright. Fifthly, The Earth	24		29	31
155	G	J. Port. Lat	and the Moon doth mutual-	25		27	33
156	A	Juvenal	ly Eclipse. Sixthly,	26		25	35
157	B	Cantate	Conformity is, that as	27		23	37
158	C	Epinach.	the Moon for a great	28		22	38
159	D	Gordi. & c.	part of Time sup-	29		20	40
160	E	Mimert.	plies the want of	30	4	18	7 42
			the Sun's Light to				
				us			

- (Last Quarter the 3d day, at 11 at Night.
 ● New Moon the 1st day, at 10 in the morning
) First Quarter the 18th day, at 2 in the morning.
 ● Full Moon the 25th day, at 1 in the morn.

1	b	St. Phil. & Jacob	capr. 24	12 A. 13	Moon's rising.	Serene & he
2	c	pr. Luc. in M. ♉	aqua. 6	0 M 13		weather beg
3	d	pr. Luc. in C. ♊	squa. 18	0 41		the Month;
4	e	4 Sun. aft. Easter	pisces 0	1 6		then some
5	f	pr. Marchab.	pisces 12	1 30		brisk winds
6	g	pr. Sheatc	pisces 24	1 50		raising show
7	a	pr. Algenib.	aries 7	2 13		and probably
8	b	pr. Nod. in L. ♋	aries 20	2 36		plenty thereo
9	c	♂ 19.	taur. 4	3 2		about the new
10	d	Sol in Gemini.	taur. 18	3 33		Moon, then
11	e	Rogation-Sund.	gem. 2	New	Moon's setting.	△ ♀ ♀ follow
12	f	♂ ♀ 12. ♋	gem. 16	8 A. 13		some warm
13	g	♂ ♀ 4.	canc. 1	9 9		& dry days,
14	a	♂ ♀ 4.	canc. 16	9 56		also some
15	b	Ascension-Day.	leo 0	10 34		♂ ♀ ♀. ♂ ♀
16	c	♂ ♀ 23.	leo 15	11 6		♂. misty mo
17	d	♂ ♀ 22.	leo 29	11 35		& hot aftern
18	e	♂ Sun. aft. Easter	virgo 13	12 1		& is likely t
19	f	Term ends.	virgo 26	0 M 1		continue ho
20	g	pr. Vindeinat.	libra 10	1 26	Moon's rising.	♂ ♀ ♀ & sea
21	a	pr. Aust. Ve. ♊	libra 23	1 50		sonable for
22	b	pr. Lanc. Aust.	scorp. 6	2 15		some time, wit
23	c	pr. Lanc. Bor.	scorp. 19	2 43		now and then
24	d	pr. Cord. Scorp	sagit. 1	3 19		♂ ♀ ♀ som
25	e	Whit-Sundry.	sagit. 14	Full		showers, especia
26	f	pr. Sin. Man. ♋	sagit. 26	8 A. 51		ly about the F. J
27	g	pr. Caput. ♋	canc. 8	9 35		♂ ♀ ♀ Moon
28	a	Ember-Week.	canc. 20	10 11		about the End
29	b	K. Ch. IIN. & Re	aqua. 2	10 42		* ♀. of
30	c	pr. Sin. Hum ♉	aqua. 14	11 8	Moon's rising.	the Month
31	d	pr. Dex. Brac ♉	aqua. 26	12 31		windy, dry, hot wea he

SAUNDER, May 1735.

h at the beginning is bid under the Sun Beams:
at the end he emergeth rising before him. ♀ at the
beginning rises between 11 and 12 at Night, at the
end about 10. ♂ sets between 10 and 11 at Night.
♀ sets between 10 and 11 at Night. ♀ towards the
end is Combust.

12	f	Pancratius	us, & makes the Nights, by	1/4	16	7	44
13	B	Servatius	the Reflection thereof, rea-	2	15		45
14	a	Boniface	sonably clear; so the Earth,	3	13		4
15	f	Rogate.	in recompence, affordeth in	4	11		4
16	f	Peregrinus	when it stands in most need,	5	9		5
17	d	Torpet	(by reflecting the Solar Rays)	6	8		5
18	e	Venant	a very clear Illumination.	7	7		5
19	f	Afc. Dom.	But perhaps amongst the Re	8	5		5
20	B	Dunstan	semblances, recited in the	9	4		5
21	a	Helena	Parallel made betwixt the	10	2		5
22	B	Exaudi.	Earth and Moon, something	11	4	1	7
23	t	Desiderius	tho' weak and invalid, may	12	4	0	8
24	d	Esther	be said in Opposition to	13	3	5	8
25	e	Urban	them; namely, that the Moon	14		5	8
26	f	Quadratus	is an hard solid Body, smooth	15		5	7
27	B	Bedav. V.	and polish'd as a Looking-	16		5	0
28	a	Germanus	Glass, as such, able to re-	17		5	4
29	B	Pentecost	fect the Sun's Light; and	18		5	3
30	t	Wigand.	for it's appearing Mountain-	19		5	2
31	d	Petronel	ous, that is to be assign'd	20	3	5	1
June		Pamphil.	only as a Cause, that it con-	21		5	0
2	f	Marcellius	sists of Parts more or less O	22		4	9
3	B	Erasmus	pacous and perspicuous, &	23		4	8
4	a	Quirinus	that in reallity it hath no	24		4	7
5	f	Trin. Sund	such concavities and pro	25		4	0
6	d	Artemius	minences as the Earth is en-	26		4	5
7	d	Paulus	dow'd with, and contrarily	27		4	5
8	e	Medardus	the Earth, by reason of its	28		4	4
9	f	Corp. Chr	Mounticity is unable to	29		4	4
10	B	Gerulius	make such reflections: To	30		4	3
11	a	St. Barnab	which my Answer is, yft,	31		4	3

June hath XXX Days.

- ☾ Last quarter the 2d day, at 4 afternoon.
- ☾ New moon the 9th day, at 6 in the afternoon:
- ☾ First quarter the 16th day, at 9 in the morning.
- ☾ Full moon the 24th day, at 3 in the morning.

1	☾	Trinity Sunday.	pisces	8	11A	53	Moon's rising.	Drilling Rain
2	☾	☾ pr. marchab.	pisces	20	12	14		Showers, follow
3	☾	☾ pr. algenib.	aries	2	0M	14		with some hot
4	☾	☾ pr. med. auf. C. ✕	aries	15	0	30		fulery Weather,
5	☾	☾ pr. prim. ✕ ariet	aries	28	0	59	Moon's setting.	continues hot a
6	☾	Term begins	taur.	12	1	28		☿ ♃ ☿. dry
7	☾	☾ pr. Pleiades	taur.	26	2	2		about the N
8	☾	☾ Sund. aft. Trin.	gem.	10	2	43		Moon, which pr
9	☾	☾ pr. Achab.	gem.	25	New	●	Moon's rising.	duceth some
10	☾	☾ pr. Luc. Ped. II	canc.	10	8A	45		(☿ ♃ ☿. 11 d.)
11	☾	Sol in Cancero	canc.	25	9	28		St. Barnaba
12	☾	☿ ♃ 23.	leo	10	10	4		brisk Shower
13	☾	☿ ♃ 9. R.	leo	25	10	33	Moon's setting.	but for the m
14	☾	☿ ♃ 25.	virgo	9	11	1		* ☿ ♃.
15	☾	☾ Sund. aft. Trin.	virgo	23	11	26		King Geo. II. Pe
16	☾	☿ ♃ 13.	libra	7	11	58		(☿ ♃ ☿. 15 d.)
17	☾	Botolph.	libra	20	12	16	☿'s rising.	part hot and dr
18	☾	☿ ♃ 29.	scorp	3	0M	16		now & then fo
19	☾	☿ ♃ 21	scorp.	16	0	44		☿ ♃ ☿. 11 d.
20	☾	☾ pr. fin. man. oph.	scorp.	28	1	15		Gales of Wi
21	☾	☾ pr. de. hum. oph.	sagit.	10	1	53	☿'s rising.	but not much W
22	☾	☾ Sund. aft. Trin.	sagit.	23	2	37		till about the P
23	☾	☾ pr. ult. Cap. ♄	capri.	5	3	25		Moon, when
24	☾	St John Baptist.	capri.	17	Full	●		hoped we m
25	☾	Term ends.	capri.	29	8A	40	☿'s rising.	☿ ♃ ☿. ha
26	☾	☾ pr. fin. Hum. ☿	aquar.	11	9	10		more Pleny
27	☾	☾ pr. dex. Hum. ☿	aquar.	23	9	32		Showers, but
28	☾	☾ pr. Marchab.	pisces	5	9	55		changes to
29	☾	St. Pet. & Paul.	pisces	17	10	15	☿'s rising.	and dry Weat
30	☾	☾ pr. Caud. auf. ✕	pisces	29	10	35		gain.

S A U N D E R, June 1735.

Rain follow the hot weather, s hot a dry t the Ne which pr some 11 d.) Rain Slower the ne o. II. P 15 d. and dr then fo c. o. b of Wi much V ut the F when we m q. ha Plenty s, bus s to y Weat		Com. St. days.	Com. St. days.	at the beginning rises between 1 and 2 in the Morning; at the end between 12 and 1, & at the beginning rises between 9 and 10 at Night, and then is south about 1 in the Morning; at the end he is so. between 11 & 12 at night. & sets a little aft. the Sun, & sets between 10 and 11 at night. & emergeth.
12	B	S. aft. Tri.	That if our Earth is thought	13 43 3 17
13	C	Cyrellus	incapable of reflecting the	2 43 17
14	D	Vaterius	Solar Rays, by Reason of	3 42 18
15	E	Vitus &c.	it's uneven Surface, the mid-	4 42 18
16	F	Rulandus	dle Region must be allow-	5 42 18
17	G	Botolph	ed to be as Light, and con-	6 42 18
18	H	Marcus	sequently as warm as the	7 41 19
19	I	S. aft. Tr.	Inferiour, to suppose which	8 41 19
20	K	Regina	is an Absurdity. But, 2dly,	9 41 19
21	L	Albanus	If the Surface of the Moon	10 41 19
22	M	Paulinus	(being Spherical) was also	11 41 19
23	N	Basilus	smooth as Glass, a very	12 41 19
24	O	St. John B.	small Part would be seen	13 41 19
25	P	Amandus	by any particular Eye to be	14 42 18
26	Q	S. aft. T.	illustrated by the Sun, altho	15 42 18
27	R	Sept. Dorm	it's whole Hemisphere was	16 42 18
28	S	Leo Pap.	exposed to the Sun's Rays,	17 42 18
29	T	St. Pet. & P.	and the rest would appear	18 43 17
30	U	Lucina	to the Eye of the Beholder	19 43 17
July.	V	Tr Syrih.	as not illuminated, and	20 3 44 3 16
1	W	Visit. V. M.	therefore invisible, for even	21 45 15
2	X	S. aft. T.	that Particle, whence the	22 45 15
3	Y	Ulricus	Reflection should come, by	23 46 14
4	Z	Anselm	Reason of its smallness and	24 46 14
5	A	Tranquil.	remoteness, would not ap-	25 47 13
6	B	Tho. Becker	pear to us bright and shin-	26 48 12
7	C	Grimbald.	ing, unless we set our Eye	27 49 11
8	D	Cyrellus	in that particular Place,	28 49 11
9	E	S. aft. T.	where the Reflection arriv-	29 50 10
10	F	Benedict.	eth; whereas on the con-	30 3 51 3 5
11	G		B 2. 11ary	

July hath XXXI Days.

- Last Quarter the 2d day at 5 in the morning.
 New moon the 9th day at 1 in the morning.
 First Quarter the 15th day, at 6 in the afternoon.
 Full moon the 23d day, at 6 in the afternoon.
 Last Quarter the 31st day, at 5 in the afternoon.

1	B	3 pr. m. sup. C. X	aries	11	10	A 56	Calm, Hot, and
2	a	1 pr. prim. * ar.	aries	24	11	24	sultry Weather
3	b	1 pr. front. Cet.	taurus	7	11	54	the beginning,
4	c	1 pr. Caud. arie.	taurus	13	12	30	about the 4th
5	d	1 pr Aldebaran	gemini	4	0	M 30	△ ♀ 9. 5th Da
6	e	Sun. aft. Trin.	gem.	18	1	19	some brisk Ca
7	f	Th. Becker	canc.	3	2	10	* ☉ h. of W
8	g	1 pr. Pollux	canc.	18	3	21	raining Showe
9	h	1 pr. Affellos	leo	4	New	20	also some Sn
10	i	1 pr. Cord. Leo.	leo	19	8	A 29	ers, and proba
11	j	1 pr. Teng. Leo.	virgo	4	8	59	some Thunder
12	k	Sol in Leone	virgo	19	9	25	bout the New
13	l	6 Sun. aft. Trin.	libra	3	9	54	& more uncert
14	m	h. 8. 20	libra	17	10	19	than of late, w
15	n	Sr. Swithin	scorp.	0	10	45	frequent conli
16	o	4 v. 5. R.	scorp.	13	11	17	Winds, & gen
17	p	Botolph.	scorp.	15	11	52	Showers ther
18	q	6 R. 16.	sagit	8	12	32	with. Now
19	r	Dog Days beg.	sagit.	20	0	M 32	may expect fo
20	s	7 Sun. aft. Trin.	capr.	2	1	17	dry & hot Da
21	t	3 m. 23.	capr.	14	2	11	till a o t the E
22	u	Mary Magdalen	capr.	26	3	8	☉, when we n
23	v	7 R. 16	aquar.	8	Full	20	△ ♀ 9 have fo
24	w	63 m. 19.	aqua.	20	7	A 20	♂ ♂ ♀. hea
25	x	St. James	pisces	2	7	54	Showers, but a
26	y	1 pr. Marchab	pisces	17	8	20	that shall have
27	z	8 Sun. aft. T. in	pisces	24	8	42	and dry Weat
28	aa	1 pr. Algenib	aries	8	9	4	with now & t
29	ab	1 pr. pri. * arie	aries	20	9	27	♂ ♂ ♀ some br
30	ac	1 pr. luc. fron. C.	taurus	3	9	54	□ ♀ 9. Gales
31	ad	1 pr. cauo. arie.	taurus	15	10	27	Wind

SAUNDER, July 1735.

Saturn at the beginning rises between 11 and 12 at Night; at the end about 10 and 11 at Night. V at the beginning is South between 10 and 11 at Night; at the end between 9 and 10. ♂ is hid under the Sun Beams, going to Combustion. ♀ sets about 10 at Night. ♀ to the end is Combust.

For. Account.	Rom. Calend.	Rom. Fest. days.							
11	D	Nab. &c.	trary it is to be understood	13	52	8	8		
12	e	Anacletus	that a rough Superficies such	2	53		7		
13	f	Ronavent	is of the Earth, is the same as	3	54		6		
14	g	St Swithin	if it was composed of innume-	4	55		5		
15	a	Kenelm	erable small Superficies, dis-	5	56		4		
16	b	6 S. aft. T.	posed according to innume-	6	58		2		
17	c	Alexius	rable diversities and Inclina-	7	59		1		
18	d	Ruffina	tions; amongst which it ne-	8	4	8	0		
19	e	Margaret	cessarily happens, that there	9	17	59			
20	f	Praxeda	are many disposed to send	10	3	57			
21	g	M. Magl	forth their reflex Rays from	11	5	55			
22	a	Apollinus	them into such a Place; many	12	6	54			
23	b	7 S. aft. T.	others into another, and in	13	7	53			
24	c	St. James	some there is not any Place	14	9	51			
25	d	Anna	to which there comes not ve-	15	11	7	50		
26	e	Sep. Dor.	ry many Rays, reflected from	16	11	49			
27	f	Panthol.	very many small Superfices	17	13	47			
28	g	Beatrix	of the rugged Body, thence d	18	15	45			
29	a	Germanus	throughout the whole Super	19	17	43			
30	b	8 S. aft. T.	ficies, upon which the Rays	20	18	42			
31	c	Lamas	of the Sun fall. From whence	21	20	40			
2	d	Moses	it necessarily follows, that the	22	21	7	39		
3	e	Dominic.	same Body, upon which the	23	22	38			
4	f	Aristarch.	illuminating Rays fall, be-	24	24	36			
5	g	Est. Niv.	held from whatsoever Place	25	26	34			
6	a	Sixtus	appeareth all illuminated &	26	28	32			
7	b	9 S. aft. T.	Shining; and therefore the	27	30	30			
8	c	Romanus	Moon, as being of a Superfi-	28	32	28			
9	d	Theodos.	cies rugged and not smooth.	29	34	26			
10	e	Laurence	frameth forth the Light of	30	36	7	24		
11	f	Titus	the Sun on every side, and	1	38	22			

August hath XXXI Days.

- New moon the 7th day, at 7 in the morning.
- First quarter the 14th day at 8 in the morning.
- Full moon the 22d day, at 10 in the morning.
- Last quarter the 30th day, at 2 in the morning.

1	c	Lammas Day	taur.	28	11	A	5	Serene, cal., Ho
2	d	pr. au. corn.	gem.	12	11	55		& dry Weather
3	e	9 Sun. aft. Trin.	gem.	26	13	0		the beginning, al
4	f	pr. cast. pollux	canc.	12	1	M	0	□ h & some mil
5	g	pr. Aff. Ilos	canc.	27	2	10		Mornings, but g
6	a	pr. au. incap.	leo	12	3	30		nerally dry till
7	b	pr. Cordem	leo	27	New	3		bout the New
8	c	pr. Caud.	virgo	12	7	A	30	* ♀ ♀. Moc
9	d	pr. vindemia	vi. go	27	7	57		when we may ex
10	e	10 S. aft. Trin.	libra	12	8	23		□ ⊙ h. pect som
11	f	h & 28.	libra	25	8	52		Showers or drif
12	g	Sol in Virgine	scorp.	9	9	24		ing Rain, then som
13	a	pr. 3. St. ad. D.	scorp.	22	9	58		Δ ♀ ♂ briskwind
14	b	3 my. 3.	lagit.	4	10	37		& probably som
15	c	2 =. 19.	lagit.	17	11	20		Showers therewit
16	d	2 Ω. 15. D.	lagit.	29	12	12		Δ ⊙ ♀. then fair
17	e	11 S. aft. Trin.	capric.	11	0	M	12	& Hot for a Da
18	f	Ω =. 17.	capric.	23	1	6		or two, other
19	g	pr. fin. Man.	aqua.	5	2	4		♂ ⊙ ♂. whiles
20	a	pr. fin. Brac	aqua.	16	3	7		some gentle coo
21	b	pr. dex. hum.	aqua.	28	4	10		ing Winds, & m
22	c	pr. Marchab.	pisces	10	Full	0		derate Rain
23	d	pr. Scheat	pisces	23	6	A	56	Showers about th
24	e	St. Bartholemew	aries	5	7	14		Full Moon, the
25	f	pr. m. au. Xcau.	aries	17	7	40		follows some go
26	g	pr. prim * arie.	aur.	0	8	6		□ h ♀. * ♀ ♀.
27	a	Dog Days end	libra	12	8	38		Harvest Weather
28	b	pr. Pleiades	taur.	25	9	15		& may probably
29	c	pr. Aldebaran	gem.	9	10	0		Δ ♀ ♀. seasonab
30	d	pr. pri. in P. E.	gem.	22	10	54		* ♀ ♀. to the en
31	e	13 S. aft. Triz.	gem.	6	12	0		of the Month.

S rising.

Moon's setting.

S rising.

Rom. Kalend.
For Account
12 C
13 a
14 b
15 c
16 d
17 e
18 f
19 g
20 a
21 b
22 c
23 d
24 e
25 f
26 g
27 a
28 b
29 c
30 d
31 e

SAUNDER, August 1735.

h at the beginning rises between 9 and 10 at Night;
at the end between 8 and 9 at Night. u at the be-
ginning is South between 8 and 9 at Night; at the
end between 7 and 8. s is Comest all this Month.
Q sets between 7 and 8 at Night. *Q* emergeth
 rising before the Sun.

Fort. Account	Rom. Kalend.	Rom. Sec. days							
12	a	Clara V.	to all Beholders appeareth e-	1	4	3	7	21	
13	a	Amatus	qually Lucid. Hence we may,	2	4			19	
14	a	10 S. afr. T.	without prejudice either to	3	4			18	
15	c	Afc. V. M.	our-selves or to the all wise	4	44			16	
16	a	Rhocus	Creator, easily imagine the	5	40			14	
17	e	Agapitus	Moon to have a Generation	6	48			12	
18	f	Helena	of things not different from	7	50			10	
19	g	Clintan	that of the Earth, and also	8	52			8	
20	a	Faulta	to be inhabited by Men: For	9	54			6	
21	a	11 S. afr. T.	2dly, if we grant the Moon	10	50			4	
22	c	Symphro	in Atmosphere, as it must	11	4	5	7	2	
23	d	Zacheus	have it inhabited, then there	12	5	0	7	0	
24	e	St. Barthol	will be no Grounds left for	13	5	2	5	58	
25	f	Ludovicus	the Doubt or Hesitations,	14	3			57	
26	g	Aureus	namely, whether it be inha-	15	5			55	
27	a	Ruffus	bited or no; but yet it ha-	16	7			53	
28	a	12 S. afr. T.	been, and still is the Opini-	17	8			52	
29	c	Dev. I. B.	on of some, that in the	18	10			50	
30	d	Felix	Moon, tho' they will not	19	12			48	
31	e	Paulinus	allow Things generated, ei-	20	5	1	5	46	
1	c	Egidius	ther Herbs or Plants, or A-	21	10			44	
2	d	Anthony	nimals, like ours, or that	22	18			42	
3	a	Mipert.	there are Rains, Winds, or	23	20			40	
4	a	13 S. afr. T.	Thunder there, as about the	24	22			38	
5	c	Moses	Earth, and much less that it	25	2			36	
6	d	Magnus	is inhabited by Men; yet I	26	20			34	
7	e	Regna	say they deny that it neces-	27	28			32	
8	c	Nat. V. M.	sarily followeth, that no alte-	28	30			30	
9	d	Gorgon	ration is or may be wrought	29	34			28	
10	a	tilar. P.	therein, or that there may	30	5	34	5	26	
11	a	14 S. afr. T.	not be other Things that	31	30			2	

September hath XXX Days.

- New moon the 5th day, at 4 in the afternoon.
- First quarter the 12th day, at 9 at night.
- Full moon the 21st day, at 1 in the morning.
- Last quarter the 28th day, at 9 in the morning.

1	f	Apr. p. ad. su. p. II	canc.	21	0	M	0	One Fair & plea
2	B	Apr. Afellos	leo	6	1	9		sant Days at the
3	a	Apr. Cord. leon.	leo	21	2	22		beginning, then
4	b	Apr. Tergum Ω	virgo	6	3	55		δ δ ♀. some drif
5	f	Apr. Caud. Ω	virgo	21	New	30		ling Rain or Show
6	B	Apr. Vindemia.	libra	5	6	A	30	ers, followed with
7	●	14 Sun. aft. Trin.	libra	20	6	53		some Fair & dry
8	f	Nat. S. V. Mary	scorp.	4	7	32		Days, but not o
9	B	15. 28. B.	scorp.	17	8	6		long continuance
10	a	1 W. 4.	scagit.	6	8	44		Δ ⊙ h. δ ⊙ ♀
11	B	3 W. 21.	scagit.	12	9	27		Δ h ♀. but after
12	f	Sol in Libra.	scagit.	25	10	16		Showery; then
13	B	9 m. 13.	capri.	8	11	10		□ ♀ some frost
14	●	15 Sun. aft. Trin.	capri.	20	12	8		Mornings & plea
15	f	15. 8.	aqua.	1	0	M	8	sant Afternoons
16	B	13. 16.	aqua.	13	1	5		□ ⊙ ♀. also some
17	a	Ember Week	aqua.	25	2	16		misty and fogg
18	B	Apr. leq. in C. a.	pisces	7	3	14		Mornings, follow
19	f	Apr. Marchab	pisces	19	4	2		with high Winds
20	B	Eclipsed visi.	aries	1	5	15		& plenty of Snow
21	●	St. Matthew.	aries	14	Fall	●		Δ h δ. ers, about
22	f	Apr. pri. ♄ ariet	aries	27	6	A	22	the Full-Moon,
23	B	Apr. Manker	taur.	9	6	50		then some Fair &
24	a	Apr. Pleiades	taur.	23	7	25		pleasant Days, bu
25	B	Apr. Aldebaran	gem.	6	8	7		soon turns to
26	f	Apr. aust. corn. ♂	gem.	19	9	0		Windy & storm
27	B	Apr. sup. Gen. II.	canc.	3	0	50		Weather, & wi
28	●	17 Sun. aft. Trin.	canc.	17	11	8		very likely conti
29	f	St. Michael	leo	1	12	20		nue stormy & troug
30	B	Apr. cord. leon	leo	16	0	M	20	to the End of the
								Month.

Roms. Kalend.
For. Account

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SAUNDER, September 1735.

FOR ACCOUNT		Rom. Sts. days	Rom. Calend.	<i>h</i> at the beginning rises about 8 at Night; at the end between 6 and 7. <i>v</i> at the beginning is South, between 6 and 7 at Night; at the end about Sunset, and then sets about 9 at Night. <i>s</i> is hid under the Sun Beams. <i>q</i> sets at the beginning about 7 at Night, at the end about 6. <i>p</i> is Combuſt.			
12	c	Tobias	Change and generate, and ar	1	5	38	6 22
13	d	Amatus	much different from ours; be-	2		40	20
14	e	Exalt. cru.	holding and admiring the	3		42	18
15	f	Nicomed.	greatnels and Beauty of the	4		44	16
16	g	Feriolus	World, and of its Maker and	5		46	14
17	a	Lampert	Ruler, and with continual	6		48	12
18	b	15 S. aft. T.	Encomiums, ſinging his	7		50	10
19	c	Januarius	Praise, making it their per-	8		52	8
20	d	Fauſta	petual Employment to Laud	9		54	6
21	e	St. Math.	their Creator; theſe Men	10		56	4
22	f	Mauritius	tho' of different Opinions,	11	5	58	6 2
23	g	Tecla V. M.	yet do maintain the Habita-	12	6	c 6	c
24	a	Rupert	bility of the Moon. But what	13	6	25	58
25	b	16 S. aft. T.	needs more? it reſts, that we	14		4	56
26	c	Cyprian	ſay ſomething touching the	15		6	54
27	d	Col. & Da.	Point, which I argue from	16		8	52
28	e	Auguſtin.	the Moon's having an At-	17		10	50
29	f	St. Mich.	mosphere, for Proof where	18		12	48
30	g	Hierom	of I inſtance in the late To-	19		14	46
31	a	Remigius	tal Eclipse, viz. on April	20	6	16	5 44
1	b	17 S. aft. T.	22. 1715. During the Time	21		19	41
2	c	Maximin	of Total Obſcurity of which,	22		21	39
3	d	Francis	there appeared a very bright	23		23	37
4	e	Apollinus	Circles (as was beheld by the	24		25	35
5	f	Fides	bare Eye) encompassing the	25		28	32
6	g	Marcus &c	Body of the Moon, equally	26		30	30
7	a	Pelagia	on all ſides, and I am of O.	27		32	28
8	b	18 S. aft. T.	pinion that the ſame Circle,	28		34	26
9	c	Burchard	was occaſioned by the Re-	29		36	24
10	d	Glideon.	ſlection,	and	30	6 38	5 22

October hath XXXI Days.

- New moon the 5th day at 2 in the morning.
- First quarter the 12th day at 4 in the afternoon.
- Full moon the 20th day at 4 in the afternoon
- Last quarter the 27th day at 5 at night.

1	a	pr. vent. Leonis	virgo	0	1	M 40	●	Cold, Raw, & drif-
2	b	pr. caud. Leonis	virgo	14	3	1	●	ling Weather, at
3	c	pr. sec. fin. al. π	virgo	29	4	15	●	* π ♀ the begin-
4	d	● Eclipsed invisib.	libra	14	5	32	●	□ γ ♀ . ning also
5	e	18 Sun. aft. Trin.	libra	28	New	●	●	Windy and stormy
6	f	pr. lanc. aust.	scorp.	12	6	A 7	●	about the New
7	g	pr. Lanc. Bor.	scorp.	25	6	44	●	then follows some
8	a	pr. Cord. scorp	lagit.	8	7	29	●	gentle Frosts fol-
9	b	♂. 27. ♀.	lagit.	21	8	15	●	lowed with Snow
10	c	♀. 7.	capri.	3	9	7	●	ery or drifting
11	d	K. Geo. II. Coron.	capri.	16	10	4	●	Weather, till a
12	e	19 Sun. aft. Trin.	capri.	28	11	6	●	♂ ♀ ♀. bout the
13	f	Sol in Scorpione	aqua.	9	12	9	●	14th or 15th days,
14	g	♂. 13.	aqua.	21	0	M 9	●	when we may Ex-
15	a	♀ m. 18 ♀.	pilces	3	1	9	●	pect some brisk
16	b	♀ m. 24.	pilces	15	2	10	●	Frosts and plea-
17	c	♂. 14.	pilces	27	3	19	●	♂ ♀ ♀. fant Days,
18	d	St. Luke	aries	10	4	27	●	for some Time ex-
19	e	20 Sun. aft. Trin.	aries	22	5	34	●	cept some Wind
20	f	pr. luc. fron. cet.	taur.	5	Full	●	●	and Showers, a-
21	g	pr. Pleiades	taur.	19	5	A 29	●	* ♂ γ . bout the
22	a	pr. Aldebaran	gem.	2	6	10	●	Full Moon, after
23	b	Term begins	gem.	16	6	57	●	that some Fair &
24	c	pr. luc. Ped. II.	canc.	0	7	50	●	dry Weather and
25	d	Crispin	canc.	14	9	0	●	♂ ♂ ♀. Frosty
26	e	21 Sun. aft. Trin.	canc.	28	10	13	●	therewith, bur to
27	f	pr. auf. incap. ♀	leo	12	11	27	●	wards the End
28	g	St. Simon & Jude	leo	26	12	45	●	* π ♀. high
29	a	pr. fin. cur. ♀.	virgo	10	0	M 45	●	Winds bringing
30	b	K. Geo. II. Born	virgo	25	2	2	●	Storms of cold rain
31	c	pr. Vindeimia.	libra	9	3	21	●	or Snow therewith

Rom. Calend.
For Account.
For Account.

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Nov

S A U N D E R, October 1735.

1 at the beginning rises about 6 at Night; at the end a little after Sun set, and is then South about 1 in the Morning. *2* at the beginning sets between 8 and 9 at Night; at the end between 7 and 8. *3* emergeth rising before the Sun. *4* at the beginning is hid under the Sun Beams; at the end is Combust *5* sets after the Sun.

For Account.	Röm. Kalend.	Röm. Sts. days						
1	12	e	Remigius	and Refraction of the Solar	1	6	40	22
2	13	t	Tolemach.	Rays through the Atmo-	2		42	18
3	14	a	Calixtus	sphere of the Moon, at that	3		44	16
4	15	a	Hedivig	Time there being no sensible	4		46	14
5	16	b	19 S. aft. T.	Appearance of any thing else	5		48	12
6	17	t	Florentius	that we may more justly at-	6		50	10
7	18	d	St. Luke	tribute to it, as the Cause	7		52	8
8	19	e	Ptolomy	thereof; for it is impossible	8		54	6
9	20	f	Wendelin	there should be any Reflec-	9		56	4
10	21	a	40 V. Mar.	tion from the Earth, seeing	10	6	58	2
11	22	a	Cordula	it was a Total Eclipse, I	11	7	0	0
12	23	b	20 S. aft. T.	mean from that Part of it	12	7	2	4
13	24	c	Salome	whence the Reflection should	13		4	56
14	25	d	Crispianus	come; neither is the Body	14		6	54
15	26	e	Amandus	of the Moon so transparent	15		8	52
16	27	f	Victoria	and Diaphaneous as some	16		10	50
17	28	a	21 S. & Jud	hold it to be, as that the	17		12	48
18	29	a	Narcissus	Rays of the Sun can perfo-	18		14	46
19	30	b	21 S. aft. T.	rate it, whereof it's Atmo-	19		16	44
20	31	c	Wolfgang.	sphere alone is to be admit-	20	7	18	4
21	Nov.	a	All Saints	ed as the Cause of that	21		20	40
22	2	f	All Souls	bright Circle. And if (as	22		21	39
23	3	t	Theophil.	I conceive there is) an At	23		23	37
24	4	a	Amantius	mosphere about the Moon.	24		25	35
25	5	a	Larus	what was the Design? or	25		27	33
26	6	b	22 S. aft. T.	to what end did the Autho-	26		29	31
27	7	t	Florentius	of Nature create it? certain-	27		31	29
28	8	d	Seveus	ly for the Use, Convenience	28		33	27
29	9	e	Theodore	and Benefit of some more	29		35	25
30	10	f	Martin P.	Excellent Creature; it wou'd	30	7	37	4
31	11	a	Martin B.	be unnecessary, and indeed	31		3	22

For Account
Euk. Account

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1	b	All Saints	libra	22	4 M 34	Misty, Foggy and
2	c	22 Sund. aft. Tr.	scorp.	6	5 54	drizzling Weather
3	f	pr. lanc. Bor.	scorp.	20	New	at the beginning
4	b	pr. cord. Scor.	sagit.	3	5 A 20	then some plea-
5	a	Gunpowder Plot	sagit.	16	6 2	sant Days are ex-
6	b	pr. fin. man. 7	sagit.	29	6 55	pected.
7	c	pr. ult. incap. 7	capri.	11	7 50	also some gentle
8	d	pr. bor. cor. 7	capri.	24	8 49	Frosts, but the
9	e	23 Sund. aft. Tr.	aquar.	6	9 50	11th or 12th days
10	f	pr. luc. cau. 7	aquar.	18	10 54	plenty of either
11	g	Solin Sagittario	aqua.	29	11 57	Martinmas-Day,
12	a	h. 24. R.	pisces	11	12 0	Cold or Rain, or
13	b	4. 7. 13.	pisces	23	1 M 0	Snow, followed
14	c	8 m 3.	aries	5	2 5	with sharp Frosts
15	d	9 m. 5. St. ad. D.	aries	18	3 13	& right winterlike
16	e	24 Sund. aft. Tr.	taur.	1	4 20	Weather, followed
17	f	St. Hugh	taur.	14	5 31	♂♂♀. 6 0 8.
18	g	7. 7. 4. R.	taur.	27	6 41	with high Winds
19	a	8. 13.	gem.	11	Full	& storms of Snow
20	b	pr. pri. in P. II	gem.	26	5 A 41	or cold Rain; now
21	c	pr. S. in gen. II	canc.	10	6 42	some mild, & plea-
22	d	Cecilia	canc.	24	7 5	sant Days for the
23	e	25 Sund. aft. Tr.	leo	9	9 9	Time of the Year,
24	f	pr. cor. leonis	leo	23	10 25	& may probably
25	g	pr. lu. verg. leo.	virgo	7	11 44	prove pretty mild
26	a	pr. ex. au. almy	virgo	21	12 58	& temperate, with
27	b	pr. vindemia.	libra	5	0 M 58	some mist or driz-
28	c	Term ends	libra	19	2 15	ling Rain, at the
29	d	pr. fin. Ped. 7	scorp.	2	3 27	End of the Month.
30	e	St. Andr. Adv.	scorp.	15	4 39	

S A U N D E R, November 1735.

♄ at the beginning is South about Midnight; at
 the end between 10 and 11 at Night. ♃ at the be-
 ginning sets about 7 at Night; at the end about 6.
 ☿ rises about 5 in the Morning. ♀ emergeth rising
 before the Sun. ☿ about the middle of the Month is
 Combustion; at the end emergeth, rising before the ☉

For Account.	Rom. Kalend.	Rom. Sts. days.							
11	a	Ludovicus		17	39	4	21		
12	b	23 S. af. T.	Superfluous too, was it or-	2	41		19		
13	c	Fredericus	dained for no other Use, but	3	43		17		
14	d	Leopold	to serve the Earth, for the	4	45		15		
15	e	Dep. Edm.	Attaining of which End, no	5	46		14		
16	f	Hugo	other Qualities are required	6	48		12		
17	g	Hezechia	of the Moon, save these of	7	49		11		
18	a	Elisabetha	Light and Motion; who	8	51	4	9		
19	b	14 S. af. T.	heretofore will affirm that	9	52		8		
20	c	Ob. V. M.	Nature (rather the Author of	10	54		6		
21	d	Cæcilia	Nature,) hath produced, and	11	55		5		
22	e	Clement	designed a Thing so Usefull,	12	57		3		
23	f	Chryslog.	and of so great Benefit to all	13	58	4	2		
24	g	Catharine	Animals, to no other Use	14	8	0	0		
25	a	Conradus	but to serve the frail Earth,	15	8	1	59		
26	b	Adr. Sund.	the Drofs of the World.	16	2		58		
27	c	Ruffus		17	4		56		
28	d	Saturnus	Even the Earth it self was	18	5		55		
29	e	St. Andrew	made for the Use of its In-	19	6		54		
30	f	Longinus	habitants, chiefly for Man;	20	8	7	53		
31	g	Cassianus	for the Use of Man are all	21	8		52		
1	a	Libanus	Animals brought forth, for	22	9		51		
2	b	2 S. in Adv.	the Feeding of them, the	23	10		50		
3	c	Sabina	Earth produceth Food; for	24	11		49		
4	d	Nicholas	the Ute and Nourishmen	25	12		48		
5	e	Ambrose	of Man, Herbs, Corn,	26	13		47		
6	f	Con. V. M.	Fruits, Beasts, Birds, Fishes,	27	14		46		
7	g	Joachim	&c. are brought	28	15		45		
8	a	Eulalia	forth;	29	15		45		
9	b	3 S. in Adv.		30	3	1	44		

December hath XXXI Days.

- New Moon the 3d. day at 8 in the morning.
- First quarter the 11th day at 10 in the morning.
- Full moon the 18th day at 6 at Night.
- Last quarter the 25th day at 10 in the morning.

1	f	pr. cord. scorp.	scorp.	29	5	M 48	High Winds, and
2	g	pr. sin. gen. op.	sagit.	12	6	52	stormy Weather
3	a	pr. bor. ex. arc.	sagit.	24	New	●	begins the Month
4	b	pr. ult. in cap.	capri.	7	5	A 27	then follows some
5	e	h. 22. B.	capri.	19	6	25	sharp Frosts, and
6	d	h. 18	aquar.	1	7	24	h. 18. is likely
7	e	2 Sund. in Adv.	aqua.	13	8	26	to continue very
8	f	h. 19.	aqua.	25	9	31	sharp winterly
9	g	h. 15 D.	pisces	7	10	33	Weather for some
10	a	h. 9. D.	pisces	19	11	37	Time, & probably
11	b	Solin Capricorn	aries	1	12	38	plenty of Snow or
12	c	h. 11.	aries	13	0	M 38	h. 11. cold Rain
13	d	Lucia V.	aries	26	1	49	withall, other
14	e	3 Sund. in Adv.	taurus	8	2	54	whiles some rough
15	f	pr. Pleiades	taur.	22	4	6	Winds, but not
16	g	pr. Aldebaran	gem.	5	5	13	* h. 9. without
17	a	Ember Week	gem.	20	6	21	h. 9. Frost, & a
18	b	pr. luc. Ped. II.	canc.	4	Full	●	sharp Air; now
19	c	pr. Pollux	canc	19	5	A 22	more mild & calm
20	d	pr. Apellos	leo	4	6	38	than of late, but
21	e	4 Sund. in Adv. St. T.	leo	19	7	57	h. 14. soon turn
22	f	pr. vent. Leo.	virgo	3	9	17	to Windy & stormy
23	g	pr. caud. Leo.	virgo	18	10	35	Weather, but not
24	a	pr. vindemia.	libra	2	11	51	without Frost, o
25	b	Nat. of Christ	libra	16	13	5	therwhiles some
26	c	St. Stephen	libra	29	1	M 5	mitly and Foggy
27	d	St. John	scorp.	12	2	16	Days, & continues
28	e	Innocents	scorp.	25	3	25	very uncertain
29	f	pr. cord. scorp.	sagit.	8	4	28	winterlike Wea
30	g	pr. dex. hu. op.	sagit.	21	5	26	ther to the End of
31	a	Silvester	capri.	3	6	17	h. 1. the Year.

Moon's setting.

Moon's rising.

SAUNDER, December 1735.

at the beginning is south between 9 and 10 at Night;
at the end about 8. & at the beginning sets a little af-
ter the Sun; at the end is hid under the Sun Beams.
♂ rises about 5 in the morning. ♀ rises about a quar-
ter after 4 in the morning. ♀ riseth a little before
the Sun.

For. Account.	Rom. Calend.	Rom. St. days.						
11	c	Valerius	forth and finally, we shall	1	8	16	3	44
12	d	Lucia V.	find the End to which they	2		17		43
13	e	Nicasius	are all directed, to be the Ne-	3		17		43
14	f	Abraham	cessity, Use, Conveniency and	4		18		42
15	g	Ananias	Delight of Man.	5		18		42
16	a	Lazarus	Now of what Use would	6		18		42
17	b	S. in adv.	the Moon be to Mankind un-	7		19		41
18	c	Loth	less it be confess'd that there	8		19		41
19	d	Ammon	are also Men in the Moon:	9		19		41
20	e	St. Thomas	Take away the small Subser-	10	8	19	3	41
21	f	30 Mart.	viency to the Earth, and then	11		19		41
22	g	Victor	it will be altogether an un-	12		19		41
23	a	Ad. & Eve	usefull, and superfluous Work	13		19		41
24	b	Christmas.	of the Creation. But seeing	14		18		42
25	c	St. Stephen	that it's true, that Nature	15		18		42
26	d	St. John	does nothing in Vain, i. e.	16		18		42
27	e	Innocents	that is Useless, we may thence	17		17		43
28	f	Jonathan	conclude, that the Moon was	18		17		43
29	g	David	designed otherwise, than to	19		16		44
30	a	Silvester	serve the Earth only, i. e. for	20	8	16	3	44
31	b	Jan. 1736. Civ.	an Habitation to its Genera-	21		15		45
1	c	Abel	tions and Productions, and	22		15		45
2	d	Methusal.	to resemble the Earth, in this	23		14		46
3	e	Seth	as in other Respects.	24		14		46
4	f	Simeon		25		13		47
5	g	Epiphany		26		12		48
6	a	Juliana		27		11		49
7	b	28. aft. Ch.		28		10		50
8	c	Marcellus		29		9		51
9	d	Nicanor		30	3		3	52
10	e	Huginus		31		7		53

FINIS.

A TABLE shewing how many Years Purchase a Lease or Annuity (to endure for any number of Years under 33) is worth presently, at Interest upon Interest, at Six in the Hundred; and shewing plainly how to discount any Lease in being, and the value of the Reversion after any number of Years.

The Use and Explanation of the TABLE.							
Years of a Lease.	Years.	Months.	Tenth parts.	<i>The first Column towards the left Hand, sheweth the Years of a Lease, or Annuity; and right against each Year, is the Years, Months, and Tenth Parts of a Months Purchase, that such a Lease or Annuity is worth. Example.</i>			
1	0	11	0	Suppose a Lease or Annuity to continue 12 Years, and you would know how many Years Purchase it is worth in present Money, look in the Table for Twelve Years of a Lease to the Left Hand, and against the same you shall find 8, 4, 6, which sheweth, that such a Lease is worth 8 Years, 4 Months, and 6 Tenth Parts of a Months Purchase.			
2	1	9	9				
3	2	8	1				
4	3	5	9				
5	4	2	5				
6	4	11	1				
7	5	7	0				
8	6	2	7				
9	6	9	9				
10	7	4	3				
11	7	10	7				
12	8	4	6				
13	8	10	3				
14	9	3	6				
15	9	8	9				
16	10	1	3				
17	10	5	8				
18	10	9	3				
19	11	1	9				
20	11	5	7				
21	11	9	3				
22	12	0	5				
23	12	3	6				
24	12	6	6				
25	12	9	4				
26	13	0	0				
27	13	2	5				
28	13	4	9				
29	13	7	1				
30	13	9	2				
31	13	11	1				
32	14	1	0				

AGAIN,

If you are to take or buy the Reversion of any Lease or Annuity, work thus: Suppose the Lease to be thirty Years in all, you find in the Second Table and Right Hand against Thirty, 13 Years, 9 Months, and 2 Tenth Parts of a Months Purchase, this it were worth were it in present Possession. But suppose there be a Lease of five Years (more or less) before you commence, look in the Table against the five Years, and there you find 4 Years, 2 Months, and 5 Tenth parts of a Months Purchase: Take this out of the Sum against Thirty, which is, 13, 9, 2, the Remainder is, 9, 6, 7, which is 9 Years, 6 Months, and 7 Tenth Parts of a Month; and so much is the Reversion after 5 Years, worth the Remainder of 30 Years.

This is Useful, and very Easy.

SAUNDER, 1735.

The SECOND PART.

Containing the Eclipses; the Suns Quarterly Ingresses; the Southing of the 7 Stars for every 5th Day of this Year; with Directions for finding the Rising, Southing and Setting of several Fixed Stars: As also, Rules & Tables to measure Timber: And other Things worth Observation.

The Characters of the Twelve Signs, and what parts of the Body they are said to govern.

Aries, Head & Face; ♉ Taurus, Neck & Throat; ♊ Gemini, Arms & Shoulders; ♋ Cancer, Breast & Stomach; ♌ Leo, Heart & Back; ♍ Virgo, Bowels & Belly; ♎ Libra, Rins & Loins; ♏ Scorpio, Secrets; ♐ Sagittary, Thighs; ♑ Capricorn, Knees; ♒ Aquarius, Legs; ♓ Pisces, the Feet.

The Characters of the planets, with the Dragons Head and Tail; ♄ Saturn, ♃ Jupiter, ♂ Mars, ☉ Sol, ♀ Venus, ☿ Mercury, ☾ Moon, ♁ Dragons Head, ☿ Dragons Tail.

The Aspects.

Conjunction, * Sextile, □ Quartile, △ Trine, ♂ Opposition

Brief Chronology of Memorable Things, to this Year, 1735.

THE Creation of the World	5684
Noah's Flood	4028
The Destruction of Sodom and Gomorrah	3637
The Destruction of Troy	2917
Brute entered this Island	2842
The Building of London	2842
The Building of York	2724
The Building of Leicester	2678
The Building of Canterbury	2624
The Building of Stamford	2595
The Building of Rome	2487
The Destruction of Jerusalem by T. Vesp.	1645
England first received the Christian Faith	1552
The Tower of London built	1170
Duke William conquered England	669
Westminster Hall was built	636
The Bible divided into Chapters	510
The	The

SAUNDER. 1735.

The Invention of Guns
 The Art of Printing
 St. Pauls Steeple fired
 New Star in *Cassiopeia*
 A great Snow fell Feb. 4:
 Tilbury Camp on St. James's day
 A Plague in London, whereof dyed 30598
 Gunpowder Treason, November 5.
 A great Snow, and Smithfield payed
 A great Plague in London, whereof dyed 35418
 The Long Parliament began, November 3.
 King Charles the First was Murdered
 Two Comets appeared in December and March
 The doleful Plague that followed them
 London was burnt, September 2, 3, 4, 5
 The last great Snow
 The wonderful Comet in December
 A Comet in August
 The terrible Fire in Wapping, November 19.
 A great Earthquake, October the 6th
 The last great Frost
 The Rebellion in the West
 The seven Bishops sent to the Tower, June
 The Prince of Orange Landed, November 5.
 King William went to Ireland with an Army, June
 The French Fleet beaten by the English and Dutch, &c.
 Our most Gracious Queen Mary Dyed, Dec. 28:
 The Horrid Conspiracy to Assassinate His Majesty King
 William, and to bring in the French, was happily disc.
 The Peace concluded with France
 War again proclaimed against France, &c.
 Gibraltar taken by the English & Dutch Fleet, July
 The Glorious Battle of *Blenheim*, where the French
 were Beaten by the Confederates
 The Battle of *Ramilis*, wherein the French were beaten
 England and Scotland made one Kingdom, by the
 Name of Great Britain, May 1.
 Peace again concluded with France, 1713
 King George 1. proclaim'd, Aug. 1. 1714.
 King George 1. died, June 11. 1727.
 King George 2. proclaimed, June 15. 1727.
 And crowned October 11. 1727.

Since

SAUNDER, 1735.

Of the Eclipses this Year, 1735.

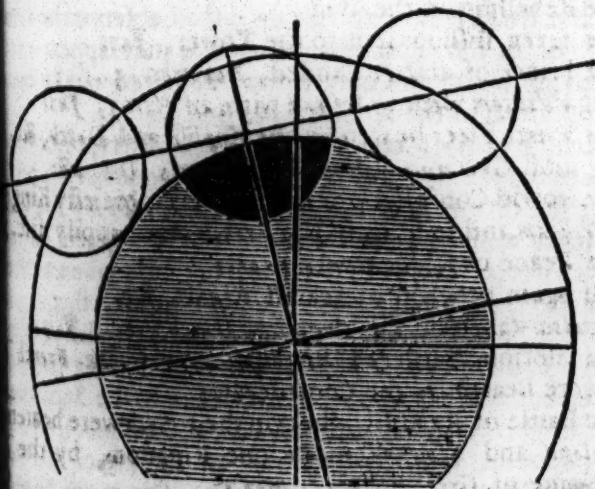
Here will happen within the Revolution of this Year, four Eclipses, two of the Sun, and two of the Moon; they are as followeth.

The first is of the Moon, March the 27th, about 11 a Clock in Morning, therefore invisible to us; but to our Antipodes, the Pacific Ocean, and most part of America, it may be seen, one half of the Moon's Body darkened, on the upper side.

The second is of the Sun, April the 11th, about 11 at Night, more invisible here; but will appear eclipsed to all the parts of America, and that very great in Magellanic Land, Le Mair's Streights, Terra del Fuego, and all the Magellanic Sea.

The third is of the Moon, partial, and visible, if the Air be clear on the 21st of September, in the Morning, as under.

	D.	H.	M.		H.	M.
The Beginning Sept. 20.	12	12		Total Duration	2	34
True Opposition	13	23	P. M. {	Digits Eclipsed	5	40
Middle	13	29		Lat. Moon at Begin.	43	27
The End	14	47		at the End	36	2



The fourth and last Eclipse is of the Sun the 5th Day of May at Two in the Morning, therefore invisible to us; but will appear a great Eclipse to some of the North East Parts of the Continent from us.

Of Eclipses of the Sun and Moon, what they are, and when they happen.

THE Eclipse of the Sun is not properly an Eclipse, commonly so called, it being nothing else but the Interposition of the Body of the Moon betwixt our Sight and the Sun; for the Moon being a dense, solid, and dark Body and not transparent, coming betwixt the Sun and the Earth (which is always in a Conjunction) doth thereby hide more or less of the Sun's bright-shining Body from our Sight: yet the Sun is not eclipsed at every Conjunction, but when he falleth in or near those Intersections of their Orbs, called Head or Tail of the Dragon: Neither can the Eclipse of the Sun be Universal, as the Moon is; but may appear in one part a great Eclipse, in another it may be lesser, and in other some no Eclipse at all, and that at the self-same Instant: the Reason is, that the Sun so far exceedeth the Earth, and Earth the Moon in Bigness, that the Cone of the Moon's Shadow cannot take away or hide the whole Body of the Sun from Parts of the Earth; but one Part on'y shall observe the same be Total, or of like Quantity. Hence it may appear that the Sun loseth no Light, but only we are deprived of the same by the Interposition of the Moon's dark Body.

The Eclipse of the Moon is caused by the Interposition of the Earth between the Sun and her; for the Moon having no Light but what she receiveth of the Sun, is therefore by the Earth's Interposition eclipsed; and this can never happen but at the Full; yet not at every Full Moon, but only when at the time she is found in or near the Ecliptick, that is, in or near those Nodes, or Intersections of the Ecliptick, called Head and Tail of the Dragon; for then having little or no Latitude, but being diametrically opposite to the Sun, the Shadow of the Earth falleth upon her, and eclipseth her. Hence it appears, that what we call an Eclipse of the Sun is more properly an Eclipse of the Earth: For as the Shadow of the Earth eclipseth the Moon, so the Shadow of the Moon eclipseth the Earth; the Sun loseth no Light in one place more than in the other, &c.

SAUNDER. 1735.

A Table of Equation of Natural Days, for the better proving the Truth of the Motion of Clocks and Watches for the first six Months of the Year 1735.

Z.	January		Febr.		March		April		May		June	
	m.	f.	m.	f.	m.	f.	m.	f.	m.	f.	m.	f.
1	8	53	14	49	10	10	0	53	4	9	1	8
2	9	15	14	47	9	54	0	36	4	10	0	56
3	9	37	14	45	9	38	0	20	4	12	0	43
4	9	59	14	42	9	21	0	4	4	13	0	31
5	10	20	14	39	9	4	0	11	4	12	0	19
6	10	41	14	34	8	45	0	26	4	12	0	6
7	11	0	14	29	8	28	0	41	4	11	0	17
8	11	18	14	24	8	10	0	55	4	9	0	20
9	11	36	14	18	7	25	1	9	4	7	0	33
10	11	54	14	11	7	34	1	22	4	4	0	46
11	12	10	14	3	7	15	1	35	4	1	1	58
12	12	26	13	54	6	56	1	48	3	58	1	11
13	12	41	13	45	6	38	2	0	3	53	1	24
14	12	55	13	36	6	19	2	11	3	48	1	37
15	13	9	13	26	6	0	2	22	3	48	1	50
16	13	21	13	15	5	41	2	35	3	37	2	2
17	13	33	13	4	5	28	2	43	3	31	2	14
18	13	43	12	53	5	4	2	52	3	24	2	20
19	13	53	12	41	4	45	3	1	3	12	2	30
20	14	3	12	28	4	26	3	10	3	9	2	50
21	14	11	12	15	4	7	3	18	3	0	3	2
22	14	18	12	1	3	49	3	26	2	52	3	13
23	14	25	11	47	3	31	3	33	2	43	3	25
24	14	31	11	31	3	13	3	41	2	34	3	36
25	14	36	11	16	2	54	3	45	2	24	3	40
26	14	40	11	1	2	31	3	51	2	14	3	57
27	14	43	10	46	2	17	3	55	2	4	4	7
28	14	46	10	30	2	0	3	59	1	53	4	16
29	14	47			1	42	4	3	1	42	4	25
30	14	48			1	25	4	6	1	31	4	33
31	14	49			1	0			1	19		

SAUNDER, 1735.

A Table of Equation of Natural Days, for the better proving the Truth of the Motion of Clocks and Watches the last six Months of the Year 1735.

M.D.	July		August		Septem.		October		Novem.		Decemb.	
	m.	f.	m.	f.	m.	f.	m.	f.	m.	f.	m.	f.
1	4	41	4	32	3	43	13	11	15	25	5	49
2	4	49	4	23	4	4	13	25	15	17	5	20
3	4	57	4	13	4	24	13	39	15	8	4	52
4	5	4	4	2	4	45	13	53	14	58	4	52
5	5	10	3	51	5	5	14	5	14	47	3	54
6	5	13	3	40	5	26	14	17	14	35	3	21
7	5	22	3	27	5	46	14	28	14	23	2	55
8	5	27	3	14	6	7	14	39	14	10	2	24
9	5	31	3	1	6	28	14	49	13	56	1	56
10	5	35	2	48	6	48	14	59	13	41	1	22
11	5	38	2	31	7	9	15	9	13	25	0	57
12	5	41	2	20	7	29	15	18	13	8	0	26
13	5	43	2	5	7	49	15	25	12	51	0	4
14	5	45	1	50	8	9	15	31	12	33	0	34
15	5	46	1	34	8	29	15	37	12	14	1	4
16	5	46	1	17	8	48	15	43	11	55	1	43
17	5	45	1	0	9	8	15	48	11	35	2	35
18	5	44	0	43	9	28	15	52	11	14	2	33
19	5	43	0	26	9	47	15	55	10	53	3	30
20	5	41	0	9	10	7	15	57	10	31	3	23
21	5	39	0	9	10	25	15	59	10	8	4	15
22	5	36	0	27	10	43	16	0	9	44	4	8
23	5	32	0	46	11	1	16	1	9	20	4	5
24	5	28	1	5	11	19	16	0	8	55	5	2
25	5	23	1	24	11	37	15	58	8	30	5	5
26	5	17	1	44	11	54	15	56	8	4	6	1
27	5	11	2	3	12	10	15	53	7	38	6	4
28	5	5	2	23	12	26	15	49	7	12	7	1
29	4	58	2	42	12	41	15	44	6	45	7	3
30	4	50	3	3			15	38	6	17	8	1
31	4	41	3	23			15	32			8	1

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SAUNDER, 1735.

The Equation of Time in the foregoing Table mentioned, taken from the difference of the Right Ascensions of the Sun's or Earth's Annual Motion; whose sum if of like Denomination or Difference, if unlike, is the absolute Equation of Time, according to Mr. Tho. Street in his *Astronomia Carolina*.

Hence 'tis concluded, that a good and well adjusted Clock, or Watch, ought to be at all times so much Faster or Slower than the apparent Time shewn by a good Sun-Dyal, as in the foregoing Table mentioned; and for the greater exactness in examining, 'tis best to compare by the same Sun-Dyal, and at the same time of Day, as oft as may be.

Of the Four Quarters of the Year : And first of the Spring,
 The Spring Quarter begins March 9. 11 h. 58 m. P. M. the Sun then entering the first Point of Aries, (or the Earth *Libra*) making equal Day and Night to all (except under the Poles.) This Quarter generally is hot and moist.

2. Of Summer.
 This Quarter begins June 11. 56 m after 1 Manè, making the longest Day and shortest Night to all on this Side the Equator. This Quarter naturally is hot and dry.

3. Of Autumn.
 Autumn this Year begins September 12. 3 h. 57 minutes, after noon, the Earth then entering Aries, or the Sun *Libra*, again making equal Day and Night. This Quarter is naturally cold and dry, resembling melancholly.

4. Of Winter.
 Which begins December 11. 5 h. 43 m. Mane, making our shortest Day and longest Night, and is naturally cold & moist.

To find the Rising, Southing and Setting, of several fixed Stars hereafter mentioned.

IN the Tables following you have first the seven Stars Southing for every fifth day: In the second Table is set the difference betwixt the Southing of those Stars therein named, and the seven Stars, which difference being added to the time of the seven Stars Southing, giveth theirs. In the same Table is also set their semidiurnal Arches, thereby to find the rising and setting of the said Stars. Suppose it is required to

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know what time the great Dog-star, called *Syrinx*, will be South the 11th of *February*? I then find the Seven Stars South 5 hours 11 minutes, to which I add 3 hours 2 minutes the difference annexed to the great Dog-Star, and it makes 8 hours 12 minutes, being the time of its Southing the said 11th of *February*. If to the Southing you add the Semidiurnal Arch 4 hours 31 minutes, it gives the time of its setting at 12 hours 43 minutes; but if you substract the Semidiurnal Arch from the Southing, it leaveth the time of its Rising. The like may be done by any other of the said Stars.

For the better distinction of the several sizes of Stars they are divided into six several magnitudes. The biggest and brightest Stars are called Stars of the first Magnitude. Those of one size inferiour in light, and bigness, are called Stars of the second Magnitude, &c. Now for the better knowing the Stars hereafter-mentioned; Note, That the great Dog-star, *Lion's Heart*, *Virgins Spike*, and the bright star of *Lyra*, are accounted stars of the first magnitude, so are also *Aldebaran* and *Arcturus*, but they are Red Stars, much of the colour of Mars; all the rest in the Table are of the second magnitude, except the Northern and Southern *Aff.* which are small Stars, being of the fourth magnitude.

A Table shewing the Hour and minute of the Seven Stars coming to South, every 5th day of this year, 1735.

Months.	Days of the Month.											
	I		6		11		16		21		26	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
January	7	A 58	7	A 37	7	A 15	6	A 54	6	A 33	6	A 11
February	5	A 50	5	30	5	11	4	52	4	33	4	1
March	4	A 13	4	23	3	24	3	52	2	47	2	2
April	2	A 8	1	49	1	31	1	12	0	53	0	3
May	0	A 15	11	M 55	11	M 35	11	M 15	10	M 54	10	M 34
June	10	M 9	9	48	9	27	9	7	8	46	8	26
July	8	M 6	7	46	7	25	7	5	6	46	6	24
August	6	M 4	5	46	5	27	5	9	4	50	4	3
September	4	M 1	3	53	3	35	3	18	3	1	2	4
October	2	M 23	2	4	1	45	1	26	1	6	0	4
November	0	M 23	0	3	11	A 40	11	A 17	10	A 55	10	3
December	10	A 12	9	A 50	9	27	9	5	8	42	8	2

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Table shewing the difference in hours and minutes between
the coming to south of several fixed stars, and the seven stars,
also their semi-diurnal Arches thereby to find their rising
and setting.

Names of the Stars.	Diff.		Names of the Stars.	Diff.	
	South.	Arches		South.	Arches
	h. m.	h. m.		h. m.	h. m.
Baran B. eye	0 49	7 28	Lions heart, Basil.	6 23	7 13
in Orions Girdle	1 51	5 54	Virgins Spike	9 40	5 9
Dog. Syrius	3 24	3 31	Arcturus	10 32	8 0
for 1st head II	3 46	9 47	South ballance	11 54	40
Dog. procyon	3 54	6 32	North ballance	11 31	5 16
lux, 2d. head II	3 57	9 4	Northern Crown	11 52	8 55
northern Afl.	4 56	8 12	bright * Lyræ	14 57	sets not
northern Afl.	4 58	7 49	bright * Vulturis	16 15	43

Here followeth some few Rules, and Tables for the mensuration of
Superficies and Solids.

Of the Mensuration of superficial or flat measures, such
as Board, Glass, Pavement, Hangings, &c. it will be ne-
cessary to know how to measure any plain superficial figure, as
Square, Long-square, or Parallelogram, Triangle, Circle,
&c. examples of all which do here follow.

I. How to measure a Square.

Let there be a square floor, or pavement, the
whereof are each of them 5 feet 6 inches,
it is required to know how many square, or
superficial feet are contained therein. First (a
plain way to avoid Fractions will be to) Re-
duce the whole side into inches, 5 feet, 6 inches,
being 66 inches, multiply 66 by 66, and the Pro-
duct will be 4356, the superficial content in in-
ches; then divide 4356 by 144 (the square inches
in one foot) and the quotient will be 30 feet, and
6 inches remaining, which is the number of in-
ches in one quarter of a foot; so that in such a
square is contained 30 feet and one quarter. See
Margin.

66

66

396

396

4356

4356

144

30

432

36

II. To

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II. To measure the Long-square or Parallelogram:

Suppose there be a Pavement whose length is 72 feet, and breadth 12 feet, how many feet is contained therein.

Multiply 72 in length, by 12 the breadth, and the product will be 864, and so many superficial feet are contained in that Pavement.

III. To Measure a Long Superficies, which is broader at one end than at the other.

Let there be a superficies whose length is 72 inches, the breadth of the greater end 50 inches, and the breadth of the lesser end 34 inches, and let it be required to know how many feet are contained therein. First, add the breadths of both the ends together, which maketh 84, take half thereof, which is 42, which being multiplied by 72 the length, the product will be 3024 the content in inches, which being divided by 144 (the inches in one foot) the Quotient will be 21 feet, and nothing remaining, so that there is exactly 21 feet in such a superficies.

IV. How to Measure Triangles.

All Right lined Triangles are measured by this general Rule. Multiply half the length of the Base by the whole Perpendicular. Or, the whole length of the Base by half of the Perpendicular.

Suppose the Base of a Triangle be 44, and the Perpendicular 26, what is the Content.

Multiply 44 (the Base) by 13, (half the perpendicular) the Product will be 572 : Or 22 (half the Base) being multiplied by 26, (the whole perpendicular) the Product will be 572, before, which is the Content of such a Triangle.

V. All Trapezias, or Figures with four unequal sides ; a Multangular, or many sided irregular Figures, must be divided into Triangles, and those Triangles measured as before is taught, and their sums added together will give the content of such irregular Figures. And note, that the least number of Triangles, into which any plot or irregular figure may be reduced, will be less by two than the number of the sides of such irregular figures.

VI. How to measure Circles, and parts of Circles.

The Diameter of every Circle hath such proportion to the circumference of the same Circle as 7 hath to 22. Therefore

SAUNDER 1735.

Diameter being given to find the circumference, you must multiply the Diameter by 22, and the product being divided by 7, the Quotient will be the circumference. Thus, suppose Diameter of a Circle be 14, multiply 14 by 22, the product will be 308, which being divided by 7, the Quotient is 44, the circumference of that Circle whose Diameter is 14.

Having the Circumference to find the Diameter.

Multiply the circumference given by 7, the product divide by 22, and the Quotient will be the Diameter. Let the circumference of a circle be 60, multiply 60 by 7 the product be 420, which being divided by 22, the Quotient will be 19 $\frac{1}{2}$ and $\frac{3}{4}$ or $19 \frac{3}{4}$ which is the Diameter.

To find the Area or Superficial content of a Circle. Multiply half the circumference by half the Diameter, the product is the content of the Circle: Thus, Let the circumference be 44, the half whereof is 22, and the Diameter 19 $\frac{1}{2}$ the half whereof is 9 $\frac{3}{4}$, by which multiplying 22, the product will be 209 $\frac{1}{2}$ which is the superficial content of such a Circle; or,

multiply the Diameter to find the Area of the circle. First, square the Diameter, multiply the square by 11, and divide the product by 14, the Quotient is the superficial content of the circle.

Let the Diameter be as above 19 $\frac{1}{2}$ the square whereof is 380 $\frac{1}{4}$, this multiplied by 11 produceth 4180 $\frac{1}{4}$ which being divided by 14 the Quotient is 298 $\frac{1}{2}$ as above, being the superficial content of such a circle.

To measure the superficial content of half the circle, the sector of a circle, or of any other section of a circle, more or less, having the semidiameter given.

Multiply half of the compass thereof by the semidiameter of the circle, so shall you have the content.

Of the Mensuration of Solids.

Plain or Superficial Measure consisteth of two dimensions, namely, length and breadth; so Solid measure consisteth of three dimensions, namely, length, breadth and thickness.

To measure any kind of Timber, either Square, Triangular, Round, or of any other Fashion, provided it be straight and equal all along.

Cast up the superficial Content at the end thereof, by the rules before going, for the finding the Content of the Square, Triangle, Circle; &c. which Superficial Content being multiplied

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plied by the length of the Piece, will give you the Solid content thereof. *Example.* Let there be a piece of Timber (or other solid matter) whose breadth is 18 inches, its depth 13 inches, and length 142 inches, to find how many solid feet contained therein. First, multiply the breadth 18 by the depth 13, the product is 234, being the superficial Inches at the end of the piece. Secondly, multiply this 234 by 142 the length of the piece, and the product will be 33228, the solid Content in inches. Thirdly, divide 33228 by 1728, (being the number of cubical inches in one solid foot) and the quotient will be 19 solid feet, and 396 inches remaining, which is 19 solid feet, and almost a quarter of a foot, and so much is the solid content of such a piece.

A 2d Example of a round piece. Let there be a round piece of Timber whose compass is 60 inches, and the length 20 feet (or 240 inches) and let it be required to find the solid content thereof. First, by the help of the circumference 60, find the Diameter (as before is taught) by multiplying 60 by 7, and dividing the product thereof by 22, so shall you find the Diameter to be 19. Then by either of the ways before taught, viz. by multiplying the circumference by $\frac{1}{2}$ the Diameter; or by (squaring, or multiplying the Diameter in it self, and multiplying that square by $\frac{1}{4}$, and dividing the product by 14, the superficial content of the end of such a piece will be found to be $286\frac{4}{7}$ inches. Now multiply this $286\frac{4}{7}$ by the length of the piece 240, and the product will be 68727 $\frac{3}{7}$ the content in inches, which being divided by 1728, the quotient will be 39 feet, and $\frac{1}{2}$ of a foot, and 39 $\frac{1}{2}$ inches remaining, which is the solid content of such a piece of Timber. But had this piece of Timber been measured by that egregious false way of taking $\frac{1}{4}$ part of the Girt for the side of the square, it would have been found to be but 31 feet and $\frac{1}{2}$ of a foot, which is above $\frac{2}{3}$ part less than the truth, it being 39 feet, & above 8 feet. In behalf of that erroneous way many do plead, that in round Timber there is great loss in chipping to bring it near a square; therefore that way may be allowed; but this is very unequal, in great Timber there being little loss, in small Timber much. Let therefore the quality be considered, rather than make false unequal amends by a false quantity.

Of the Mensuration of Tapering Timber, either round or squared, (which are called Frustums of Cones and Pyramids.)

First find the superficial Area of each end of the piece, and multiply the one Area by the other. Secondly, on

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product of the two Area's, extract the Square Root:
 1stly, add this Root and the two Area's all into one sum.
 2^dly, multiply this sum by one third part of the length of the
 piece, and that product shall give you the Content.
 Let there be a piece of Timber whose Circumference at the
 greater end is 66 inches, at the lesser end 44 inches, and the
 length 20 feet, and it is required to find how many solid feet
 contained therein. First, the Area of the Circle at the
 greater end (by multiplying half the Circumference 33 by half
 Diameter 10 $\frac{1}{2}$) will be found to be 346 $\frac{1}{2}$, and the Area of
 the Circle at the lesser end will be 154: These multiplyed to-
 gether do produce 53361. Secondly, out of this product ex-
 tract the Square Root, which is 231, (for 231 being multiplyed
 by itself produceth 53361). Thirdly, add the two Areas, and
 the Square Root 231 together, and the sum of them will be
 731 $\frac{1}{2}$. Lastly, multiply 731 $\frac{1}{2}$ by 80 inches, (one third
 part of the length) and the product will be 58520, being the
 inches contained therein, which inches being divided by
 12, the Quotient will be 33 feet, and 1496 inches remain-
 ing, which is 3 quarters of a foot, and almost half a quarter.

*To find the Content of Tapering Timber, other ways than is
 taught above.*

These pieces being parts of Cones or Pyramids, their Con-
 tents may be found by seeking the Content of the whole Cone
 or Pyramid, (of which they are part) and the Content of that
 part which is wanting, for that part being subtracted from the
 whole, the remainder must be the Content of the part required.
 Now the way to find the content of a Cone or Pyramid is,
 multiply the superficial Content of the Base by one third
 part of the length; and to find the length of the top part of a
 Cone or Pyramid which is wanting; say thus, As the difference
 of the sides, or Diameters of the two ends, to the length be-
 tween them; so is the side, or Diameter of the greater end,
 to the whole length. *Example*, of the piece before mentioned,
 whose greater end is 66 inches about, and the lesser end 44;
 hence the Diameter of the greater end will be 21, and the Di-
 ameter of the lesser end will be 14, and their difference is 7,
 therefore say, If 7 give 20 feet what will 21 give? Answer, 60
 feet; being the whole length of the Cone; Now the superficial
 content

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content of the Base of this Cone, (being $346\frac{1}{2}$ inches) multiplied by 240 inches, (one third part of the length of the whole Cone) produceth 83160 inches, the content of the whole Cone. And the superficial content of the lesser end, (which is the Base, of the top (or wanting) part of the Cone) which is 154 being multiplied by 160, (one third part of the length of the top (or wanting) part) produceth 24640 inches, the content of the wanting part, which being subtracted from 83160, (the content of the whole Cone) the remainder is 58520 inches, the content of the part required, being the same as before.

Here followeth Tables ready calculated, for the Measuring of Squared or Round Timber, which is supposed to be equal along: Their Use is thus; seek the side of the Squared, or compass of the Round Timber, in the first, third or fifth column of the Tables, and against it, in the next column, you have the length of a solid foot. Thus, the side of a squared piece of Timber being 20 inches, the length of a solid foot will be 4 inches and 3 tenth parts of an inch: And the compass of a round piece, being 80 inches, the length of a solid foot will be found to be 3 inches, and 39 hundredth parts of an Inch.

A Table, shewing how much in length will make a Solid Foot of any Square Stone or Timber: The side of the Square being given in Inches, from 1 Inch to 36 Inches Square.

Side of the Square.		Length of a solid foot		Side of the Square		Length of a solid foot.		Side of the Square.		Length of a solid foot.	
Inch.	Fe. inc. 10ths	Inch.	Fe. inc. 10ths	Inch.	Inch. 10ths	Inch.	10ths	Inch.	Inch. 10ths	Inch.	10ths
1	144 0 0	13	10 2	25	2 8						
2	36 0 0	14	8 8	26	2 6						
3	16 0 0	15	7 6	27	2 3						
4	9 0 0	16	6 7	28	2 2						
5	5 9 2	17	5 9	29	2 1						
6	4 0 0	18	5 3	30	1 9						
7	2 11 2	19	4 8	31	1 8						
8	2 3 0	20	4 3	32	1 7						
9	1 9 3	21	3 9	33	1 6						
10	1 5 3	22	3 5	34	1 5						
11	1 2 3	23	3 3	35	1 4						
12	1 0 0	24	3 0	36	1 4						

A Table

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Table shewing how many inches in length will make a foot
solid, of any round piece of Timber or Stone, the Girt being
known; from 12 inches compass to 100.

Inch.	len. of a foot		Inch.	len. of a foot		Inch.	len. of a foot	
	Inch.	100 p.		Inch.	100 p.		Inch.	100 p.
1	179	46	41	12	92	71	4	31
2	150	80	42	12	31	72	4	20
3	128	49	43	11	74	73	4	08
4	110	79	44	11	31	74	3	97
5	94	31	45	10	72	75	3	88
6	84	82	46	10	26	76	3	76
7	75	14	47	9	83	77	3	66
8	67	02	48	9	42	78	3	57
9	60	15	49	9	04	79	3	48
10	54	29	50	8	69	80	3	39
11	49	23	51	8	35	81	3	31
12	44	86	52	8	03	82	3	23
13	40	90	53	7	73	83	3	15
14	37	69	54	7	42	84	3	08
15	34	74	55	7	18	85	3	01
16	32	12	56	6	92	86	2	94
17	29	79	57	6	68	87	2	87
18	27	70	58	6	45	88	2	80
19	25	82	59	6	24	89	2	74
20	24	13	60	6	03	90	2	68
21	22	60	61	5	84	91	2	62
22	21	21	62	5	63	92	2	57
23	19	92	63	5	47	93	2	51
24	18	78	64	5	30	94	2	46
25	17	74	65	5	14	95	2	41
26	16	76	66	4	98	96	2	36
27	15	86	67	4	84	97	2	31
28	15	04	68	4	70	98	2	26
29	14	28	69	4	56	99	2	22
30	13	57	70	4	43	100	2	17

Ad.

Advertisements.

ARTIFICIAL TEETH, set in so firm as to eat with them, and so as not to be distinguished from Natural: They are not to be taken out every Night, as is by some falsely suggested, but may be worn Years together, as they are so fitted, as that they may be taken out and put in by the Person that use them, at Pleasure; and are an Ornament to the Mouth, and very helpful to the Speech. Also Teeth cleaned or drawn, by *John Watts and Samuel Rutter*, Operators, who apply themselves wholly to the said Business, live in *Raguet-Court, Fleetstreet, London.*

STEEL SPRING, and other Sorts of *Trusses* for RUPTURES at the Neck, Groin, or elsewhere, being very easy and effectual to Old or Young. Bag-*Trusses* for fixed Tumors, and Instruments for the Lame or Crooked. *Peter Bartlett*, at the Golden Ball in *St. Paul's Church-Yard*, near *Chancery-Lane, London.* Persons in the Country sending their Bigness, and which Side the Rupture is, may be supplied with the *Trusses*, and proper Directions. His Mother, *Mrs. M. Bartlett*, at the Golden-Ball over-against *St. Bride's Lane, Fleetstreet*, is skilful in this Business to her own Sex. She also mends Strait Stockings, Knee and Ankle-Pieces, very useful for swell'd Limbs.

Gentlemen and Ladies may have their Teeth drawn or cleaned, and artificial ones set in, after the most exact Manner, and for many Years Duration, and not to be taken out every Night, as some suggest. Also may be supplied with proper Medicines for Cleaning, Whitening, and Preserving their Teeth. By *William Coryndon*, experienced Operator for Teeth, at the *Talbot-Inn*, by the *New Church* in the *Strand, London.*

Writing and Arithmetick, Taught by *Mr. Joseph Pepper*, at *Stamford, Lincolnshire*: With whom Youth may be commendably Boarded, and their Speedier Improvement.

IF any Gentleman, or other Person, would have his Land surveyed, or any Building or Edifice measured, either by Bricklayers, Carpenters, Masons, Plasterers, &c. the Author of this Almanack will perform the same, either for Master or Work-men. And if any Person would have about his House or Gardens, any Sun-Dials, either Direct, Declining, Inclining, Reclining, Concave, Convex, or Reflective, he will make and prepare for them such as they shall desire.

From *Stapleford, near Melton-Mowbray*
in the County of *Leicester*,

Die 17, Aug. 10. 1773

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